


**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐**APPLICATION FOR PERMIT TO DRILL**

<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				<b>1. WELL NAME and NUMBER</b> Greater Monument Butte R-34-8-16		
<b>4. TYPE OF WELL</b> Oil Well Coalbed Methane Well: NO				<b>3. FIELD OR WILDCAT</b> MONUMENT BUTTE		
<b>6. NAME OF OPERATOR</b> NEWFIELD PRODUCTION COMPANY				<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b> GMBU (GRRV)		
<b>8. ADDRESS OF OPERATOR</b> Rt 3 Box 3630 , Myton, UT, 84052				<b>7. OPERATOR PHONE</b> 435 646-4825		
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> UTU-76787		<b>11. MINERAL OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		<b>9. OPERATOR E-MAIL</b> mcrozier@newfield.com		
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>				<b>12. SURFACE OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>				<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>		
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>				<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>		
<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>		<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
<b>20. LOCATION OF WELL</b>	<b>FOOTAGES</b>	<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>
<b>LOCATION AT SURFACE</b>	651 FSL 1994 FEL	SWSE	34	8.0 S	16.0 E	S
<b>Top of Uppermost Producing Zone</b>	1085 FSL 2468 FEL	SWSE	34	8.0 S	16.0 E	S
<b>At Total Depth</b>	1325 FSL 2580 FWL	NESW	34	8.0 S	16.0 E	S
<b>21. COUNTY</b> DUCESNE		<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 60		<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 20		
		<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 1405		<b>26. PROPOSED DEPTH</b> MD: 6499 TVD: 6499		
<b>27. ELEVATION - GROUND LEVEL</b> 5634		<b>28. BOND NUMBER</b> WYB000493		<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 43-7478		

**ATTACHMENTS****VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES**

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP
<b>NAME</b> Mandie Crozier	<b>TITLE</b> Regulatory Tech
<b>SIGNATURE</b>	<b>DATE</b> 01/12/2010
<b>PHONE</b> 435 646-4825	<b>EMAIL</b> mcrozier@newfield.com
<b>API NUMBER ASSIGNED</b> 43013502160000	<b>APPROVAL</b>  Permit Manager

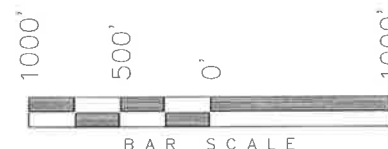
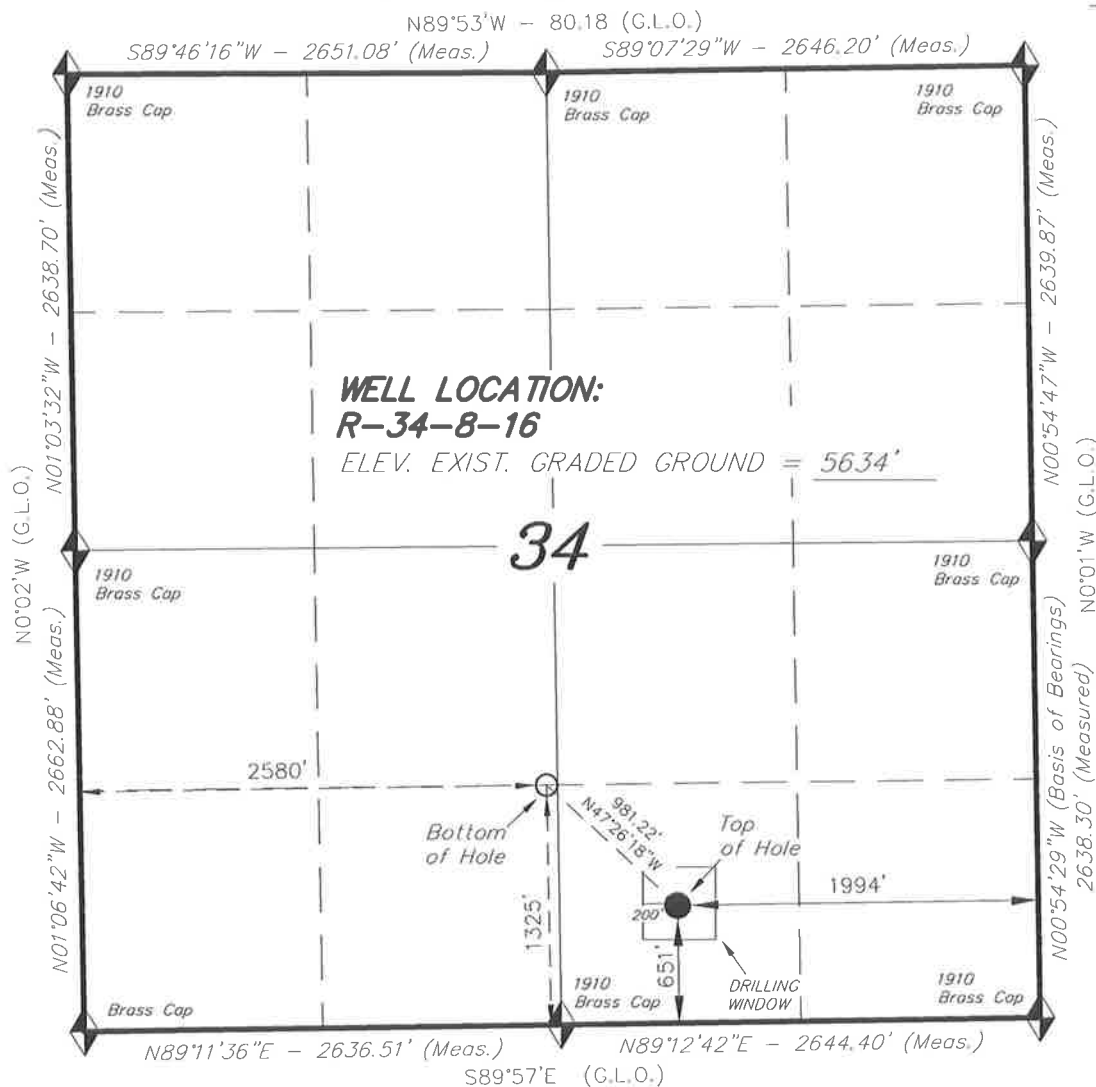
Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	5.5	0	6499		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	6499	15.5			

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	8.625	0	300		
Pipe	Grade	Length	Weight			
	Grade J-55 ST&C	300	24.0			

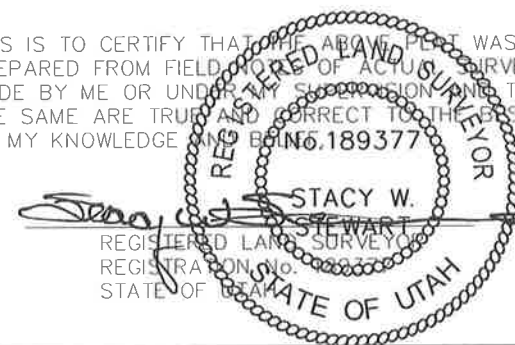
# T8S, R16E, S.L.B.&M.

## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, R-34-8-16, LOCATED AS SHOWN IN THE SW 1/4 SE 1/4 OF SECTION 34, T8S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are base on LOCATION: an N.G.S. OPUS Correction, LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

**R-34-8-16**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 04' 08.23"  
 LONGITUDE = 110° 06' 11.58"

### TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
 (435) 781-2501

DATE SURVEYED: 09-25-09	SURVEYED BY: T.H.
DATE DRAWN: 10-02-09	DRAWN BY: F.T.M.
REVISED: 12-22-09 - M.W.	SCALE: 1" = 1000'



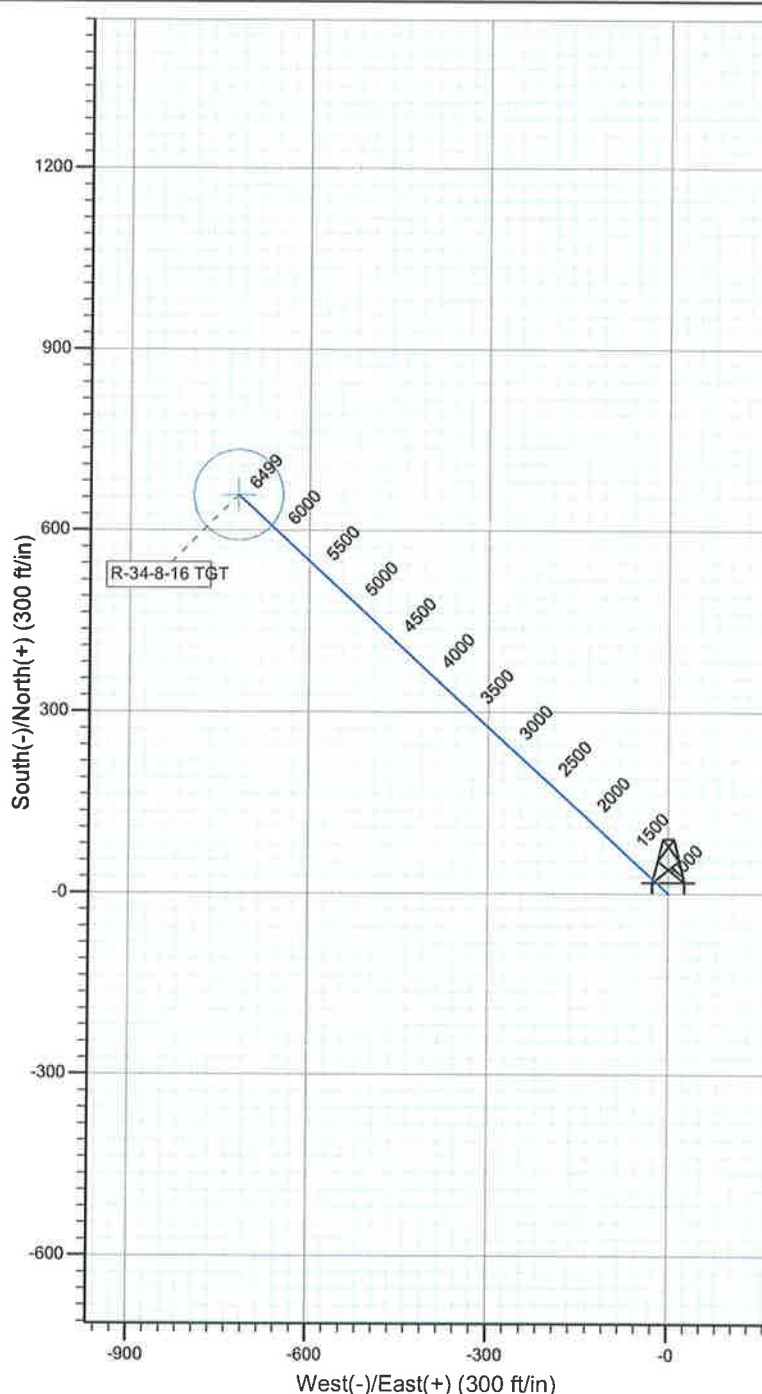
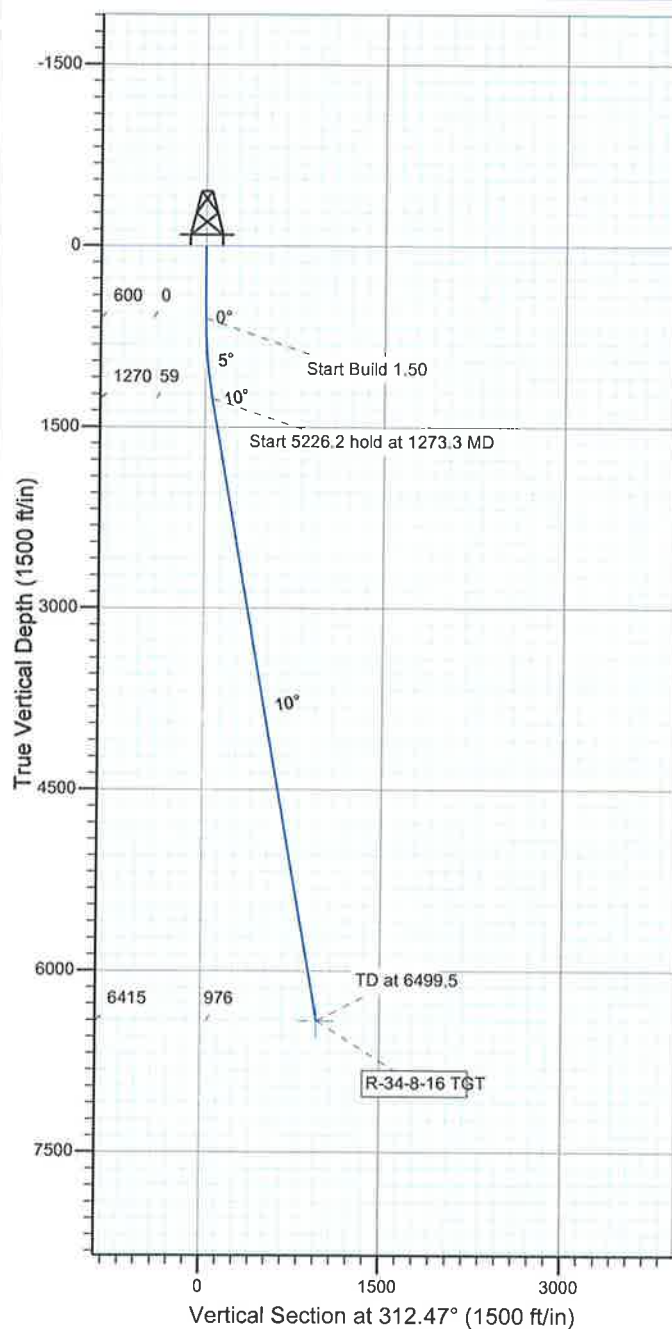
Project: USGS Myton SW (UT)  
 Site: SECTION 34 T8S, R16E  
 Well: R-34-8-16  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.53°

Magnetic Field  
 Strength: 52472.2snT  
 Dip Angle: 65.86°  
 Date: 2009/10/14  
 Model: IGRF200510

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100  
 TARGET RADIUS IS 75'



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
R-34-8-16 TGT	6415.0	658.7	-719.6	Circle (Radius: 75.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1273.3	10.10	312.47	1269.8	40.0	-43.7	1.50	312.47	59.2	
4	6499.5	10.10	312.47	6415.0	658.7	-719.6	0.00	0.00	975.6	R-34-8-16 TGT





## **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)  
SECTION 34 T8S, R16E  
R-34-8-16**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**30 November, 2009**



# HATHAWAY BURNHAM

## Planning Report



**Database:** EDM 2003.21 Single User Db  
**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 34 T8S, R16E  
**Well:** R-34-8-16  
**Wellbore:** Wellbore #1  
**Design:** Design #1

**Local Co-ordinate Reference:** Well R-34-8-16  
**TVD Reference:** R-34-8-16 @ 5646.0ft (NEWFIELD RIG)  
**MD Reference:** R-34-8-16 @ 5646.0ft (NEWFIELD RIG)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

<b>Project</b>	USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Central Zone	Using geodetic scale factor	

<b>Site</b>	SECTION 34 T8S, R16E, SEC 34 T8S, R16E		
<b>Site Position:</b>		<b>Northing:</b>	7,199,000.00 ft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,031,000.00 ft
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"
		<b>Latitude:</b>	40° 4' 29.106 N
		<b>Longitude:</b>	110° 6' 14.985 W
		<b>Grid Convergence:</b>	0.89 °

<b>Well</b>	R-34-8-16, SHL LAT: 40 04 08.23 LONG: -110 06 11.58		
<b>Well Position</b>	<b>+N/-S</b>	-2,112.5 ft	<b>Northing:</b> 7,196,892.08 ft
	<b>+E/-W</b>	264.7 ft	<b>Easting:</b> 2,031,297.60 ft
<b>Position Uncertainty</b>	0.0 ft	<b>Wellhead Elevation:</b>	5,646.0 ft
		<b>Ground Level:</b>	5,634.0 ft

<b>Wellbore</b>	Wellbore #1		
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>
	IGRF200510	2009/10/14	11.53
			<b>Dip Angle (°)</b>
			65.86
			<b>Field Strength (nT)</b>
			52,472

<b>Design</b>	Design #1		
<b>Audit Notes:</b>			
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b> 0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>
	0.0	0.0	0.0
			<b>Direction (°)</b>
			312.47

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,273.3	10.10	312.47	1,269.8	40.0	-43.7	1.50	1.50	0.00	312.47	
6,499.5	10.10	312.47	6,415.0	658.7	-719.6	0.00	0.00	0.00	0.00	R-34-8-16 TGT

**NEWFIELD**

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**Survey Calculation Method:** Minimum Curvature

**Planned Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	312.47	700.0	0.9	-1.0	1.3	1.50	1.50	0.00
800.0	3.00	312.47	799.9	3.5	-3.9	5.2	1.50	1.50	0.00
900.0	4.50	312.47	899.7	8.0	-8.7	11.8	1.50	1.50	0.00
1,000.0	6.00	312.47	999.3	14.1	-15.4	20.9	1.50	1.50	0.00
1,100.0	7.50	312.47	1,098.6	22.1	-24.1	32.7	1.50	1.50	0.00
1,200.0	9.00	312.47	1,197.5	31.8	-34.7	47.0	1.50	1.50	0.00
1,273.3	10.10	312.47	1,269.8	40.0	-43.7	59.2	1.50	1.50	0.00
1,300.0	10.10	312.47	1,296.1	43.1	-47.1	63.9	0.00	0.00	0.00
1,400.0	10.10	312.47	1,394.6	55.0	-60.0	81.4	0.00	0.00	0.00
1,500.0	10.10	312.47	1,493.0	66.8	-73.0	98.9	0.00	0.00	0.00
1,600.0	10.10	312.47	1,591.5	78.6	-85.9	116.5	0.00	0.00	0.00
1,700.0	10.10	312.47	1,689.9	90.5	-98.8	134.0	0.00	0.00	0.00
1,800.0	10.10	312.47	1,788.4	102.3	-111.8	151.5	0.00	0.00	0.00
1,900.0	10.10	312.47	1,886.8	114.2	-124.7	169.1	0.00	0.00	0.00
2,000.0	10.10	312.47	1,985.3	126.0	-137.7	186.6	0.00	0.00	0.00
2,100.0	10.10	312.47	2,083.7	137.8	-150.6	204.1	0.00	0.00	0.00
2,200.0	10.10	312.47	2,182.2	149.7	-163.5	221.7	0.00	0.00	0.00
2,300.0	10.10	312.47	2,280.6	161.5	-176.5	239.2	0.00	0.00	0.00
2,400.0	10.10	312.47	2,379.1	173.4	-189.4	256.8	0.00	0.00	0.00
2,500.0	10.10	312.47	2,477.5	185.2	-202.3	274.3	0.00	0.00	0.00
2,600.0	10.10	312.47	2,576.0	197.0	-215.3	291.8	0.00	0.00	0.00
2,700.0	10.10	312.47	2,674.4	208.9	-228.2	309.4	0.00	0.00	0.00
2,800.0	10.10	312.47	2,772.9	220.7	-241.1	326.9	0.00	0.00	0.00
2,900.0	10.10	312.47	2,871.3	232.6	-254.1	344.4	0.00	0.00	0.00
3,000.0	10.10	312.47	2,969.8	244.4	-267.0	362.0	0.00	0.00	0.00
3,100.0	10.10	312.47	3,068.2	256.2	-279.9	379.5	0.00	0.00	0.00
3,200.0	10.10	312.47	3,166.7	268.1	-292.9	397.0	0.00	0.00	0.00
3,300.0	10.10	312.47	3,265.1	279.9	-305.8	414.6	0.00	0.00	0.00
3,400.0	10.10	312.47	3,363.6	291.8	-318.7	432.1	0.00	0.00	0.00
3,500.0	10.10	312.47	3,462.0	303.6	-331.7	449.6	0.00	0.00	0.00
3,600.0	10.10	312.47	3,560.5	315.4	-344.6	467.2	0.00	0.00	0.00
3,700.0	10.10	312.47	3,658.9	327.3	-357.5	484.7	0.00	0.00	0.00
3,800.0	10.10	312.47	3,757.4	339.1	-370.5	502.2	0.00	0.00	0.00
3,900.0	10.10	312.47	3,855.8	351.0	-383.4	519.8	0.00	0.00	0.00
4,000.0	10.10	312.47	3,954.3	362.8	-396.3	537.3	0.00	0.00	0.00
4,100.0	10.10	312.47	4,052.7	374.6	-409.3	554.8	0.00	0.00	0.00
4,200.0	10.10	312.47	4,151.2	386.5	-422.2	572.4	0.00	0.00	0.00
4,300.0	10.10	312.47	4,249.6	398.3	-435.1	589.9	0.00	0.00	0.00
4,400.0	10.10	312.47	4,348.1	410.2	-448.1	607.5	0.00	0.00	0.00
4,500.0	10.10	312.47	4,446.5	422.0	-461.0	625.0	0.00	0.00	0.00
4,600.0	10.10	312.47	4,545.0	433.8	-473.9	642.5	0.00	0.00	0.00
4,700.0	10.10	312.47	4,643.4	445.7	-486.9	660.1	0.00	0.00	0.00
4,800.0	10.10	312.47	4,741.9	457.5	-499.8	677.6	0.00	0.00	0.00
4,900.0	10.10	312.47	4,840.3	469.4	-512.7	695.1	0.00	0.00	0.00
5,000.0	10.10	312.47	4,938.8	481.2	-525.7	712.7	0.00	0.00	0.00
5,100.0	10.10	312.47	5,037.2	493.0	-538.6	730.2	0.00	0.00	0.00
5,200.0	10.10	312.47	5,135.7	504.9	-551.6	747.7	0.00	0.00	0.00

NEWFIELD



# HATHAWAY BURNHAM

## Planning Report



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**Design:** Design #1

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**MD Reference:** R-34-8-16 @ 5646.0ft (NEWFIELD RIG)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.0	10.10	312.47	5,234.1	516.7	-564.5	765.3	0.00	0.00	0.00
5,400.0	10.10	312.47	5,332.6	528.6	-577.4	782.8	0.00	0.00	0.00
5,500.0	10.10	312.47	5,431.0	540.4	-590.4	800.3	0.00	0.00	0.00
5,600.0	10.10	312.47	5,529.5	552.2	-603.3	817.9	0.00	0.00	0.00
5,700.0	10.10	312.47	5,627.9	564.1	-616.2	835.4	0.00	0.00	0.00
5,800.0	10.10	312.47	5,726.4	575.9	-629.2	852.9	0.00	0.00	0.00
5,900.0	10.10	312.47	5,824.8	587.7	-642.1	870.5	0.00	0.00	0.00
6,000.0	10.10	312.47	5,923.3	599.6	-655.0	888.0	0.00	0.00	0.00
6,100.0	10.10	312.47	6,021.7	611.4	-668.0	905.5	0.00	0.00	0.00
6,200.0	10.10	312.47	6,120.2	623.3	-680.9	923.1	0.00	0.00	0.00
6,300.0	10.10	312.47	6,218.6	635.1	-693.8	940.6	0.00	0.00	0.00
6,400.0	10.10	312.47	6,317.1	646.9	-706.8	958.2	0.00	0.00	0.00
6,499.5	10.10	312.47	6,415.0	658.7	-719.6	975.6	0.00	0.00	0.00

NEWFIELD PRODUCTION COMPANY  
GREATER MONUMENT BUTTE R-34-8-16  
AT SURFACE: SW/SE SECTION 34, T8S, R16E  
DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0 – 1725'
Green River	1725'
Wasatch	6499'

3. **ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 1725' – 6499' – Oil

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

Location & Sampled Interval	Date Sampled
Flow Rate	Temperature
Hardness	pH
Water Classification (State of Utah)	Dissolved Calcium (Ca) (mg/l)
Dissolved Iron (Fe) (ug/l)	Dissolved Sodium (Na) (mg/l)
Dissolved Magnesium (Mg) (mg/l)	Dissolved Carbonate (CO <sub>3</sub> ) (mg/l)
Dissolved Bicarbonate (NaHCO <sub>3</sub> ) (mg/l)	Dissolved Chloride (Cl) (mg/l)
Dissolved Sulfate (SO <sub>4</sub> ) (mg/l)	Dissolved Total Solids (TDS) (mg/l)

4. **PROPOSED CASING PROGRAM**

a. **Casing Design: Greater Monument Butte R-34-8-16**

Size	Interval		Weight	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Surface casing 8-5/8"	0'	300'	24.0	J-55	STC	2,950 17.53	1,370 14.35	244,000 33.89
Prod casing 5-1/2"	0'	6,499'	15.5	J-55	LTC	4,810 2.33	4,040 1.95	217,000 2.15

Assumptions:

- 1) Surface casing max anticipated surface press (MASP) = Frac gradient – gas gradient
- 2) Prod casing MASP (production mode) = Pore pressure – gas gradient
- 3) All collapse calculations assume fully evacuated casing w/ gas gradient
- 4) All tension calculations assume air weight

Frac gradient at surface casing shoe = 13.0 ppg  
Pore pressure at surface casing shoe = 8.33 ppg  
Pore pressure at prod casing shoe = 8.33 ppg  
Gas gradient = 0.115 psi/ft

All casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

All casing strings shall have a minimum of 1 (one) centralizer on each of the bottom three (3) joints.

b. **Cementing Design: Greater Monument Butte R-34-8-16**

Job	Fill	Description	Sacks	OH Excess*	Weight (ppg)	Yield (ft³/sk)
			ft³			
Surface casing	300'	Class G w/ 2% CaCl	138 161	30%	15.8	1.17
Prod casing Lead	4,499'	Prem Lite II w/ 10% gel + 3% KCl	311 1013	30%	11.0	3.26
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363 451	30%	14.3	1.24

- \*Actual volume pumped will be 15% over the caliper log
- Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours
  - Compressive strength of tail cement: 2500 psi @ 24 hours

Hole Sizes: A 12-1/4" hole will be drilled for the 8-5/8" surface casing. A 7-7/8" hole will be drilled for the 5-1/2" production casing.

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

5. **MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

The operator's minimum specifications for pressure control equipment are as follows:

An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to **Exhibit C** for a diagram of BOP equipment that will be used on this well.

6. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

From surface to  $\pm 350$  feet will be drilled with an air/mist system. The air rig is equipped with a 6  $\frac{1}{2}$ " blooie line that is straight run and securely anchored. The blooie line is used with a discharge less than 100 ft from the wellbore in order to minimize the well pad size. The blooie line is not equipped with an automatic igniter or continuous pilot light and the compressor is located less than 100 ft from the well bore due to the low possibility of combustion with the air dust mixture. The trailer mounted compressor (capacity of 2000 CFM) has a safety shut-off valve which is located 15 feet from the air rig. A truck with 70 bbls of water is on stand by to be used as kill fluid, if necessary. From about  $\pm 350$  feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

Newfield Production will **visually** monitor pit levels and flow from the well during drilling operations.

7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. **TESTING, LOGGING AND CORING PROGRAMS:**

The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 300' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +/- . A cement bond log will be run from PBDT to cement top. No drill stem testing or coring is planned for this well.

9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated

Ten Point Well Program &  
Thirteen Point Well Program  
Page 4 of 4

bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

10. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

It is anticipated that the drilling operations will commence the second quarter of 2010, and take approximately seven (7) days from spud to rig release.

## 2-M SYSTEM

Blowout Prevention Equipment Systems

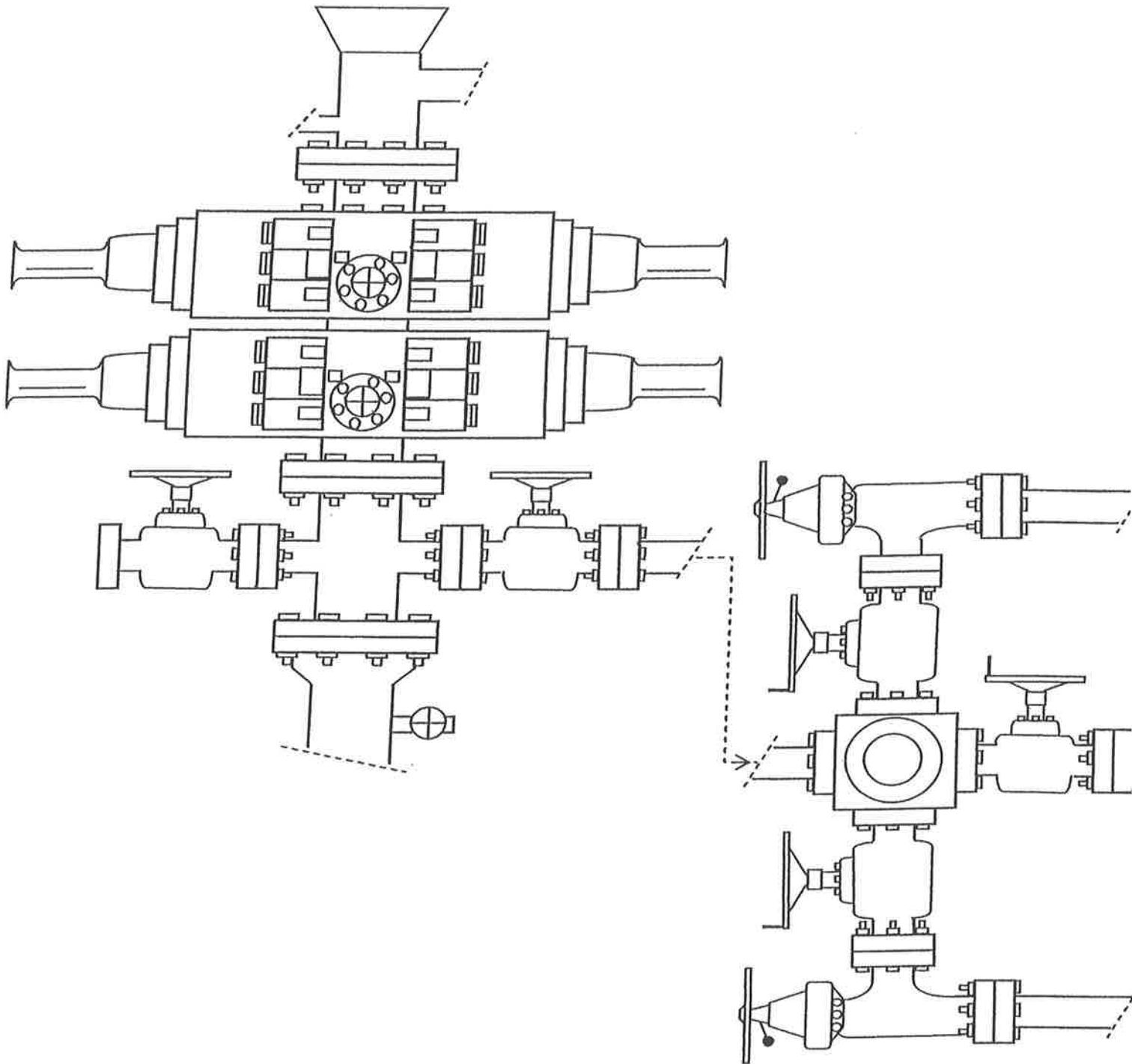
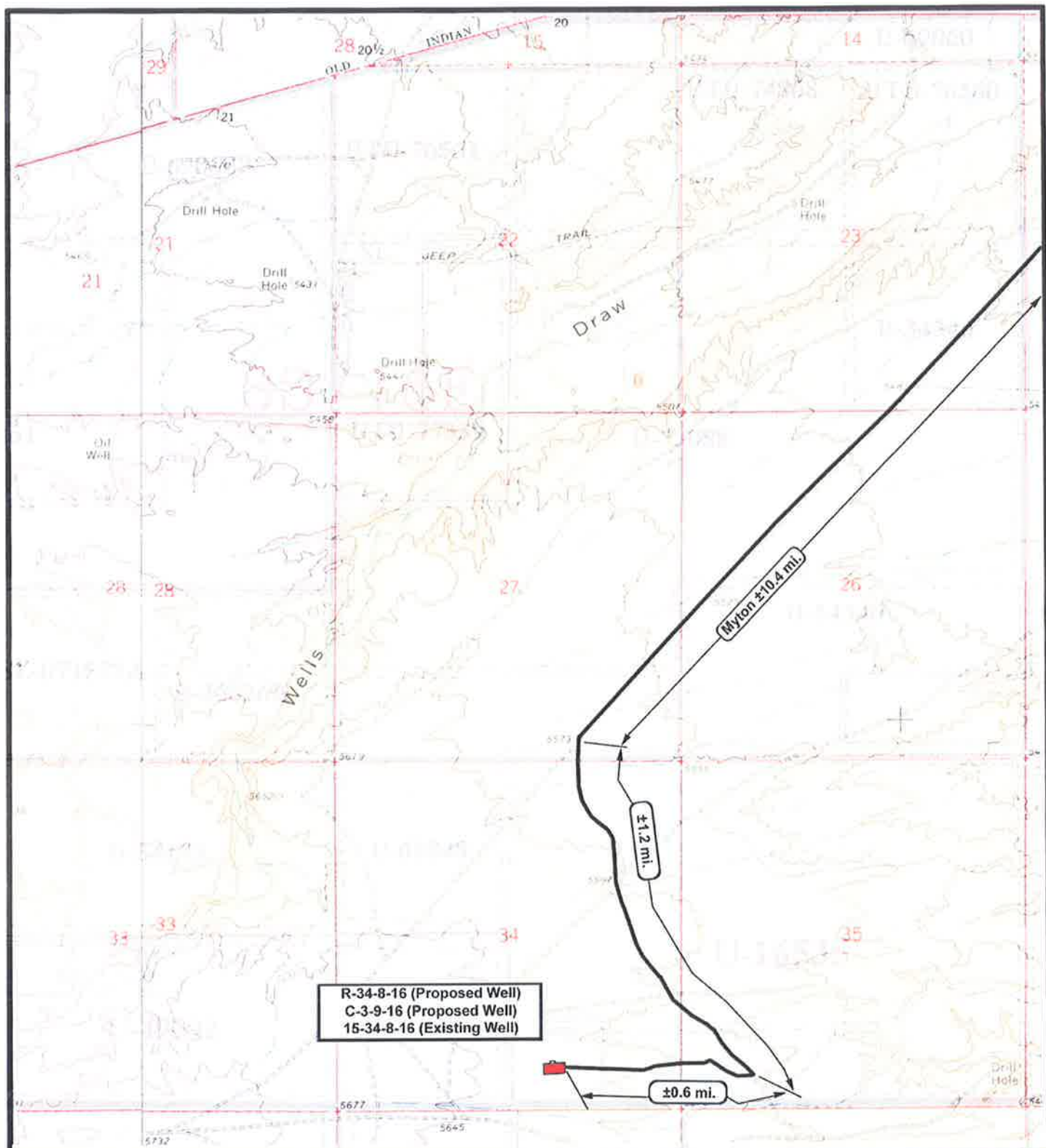


EXHIBIT C





R-34-8-16 (Proposed Well)  
C-3-9-16 (Proposed Well)  
15-34-8-16 (Existing Well)

±0.6 mi.

±1.2 mi.

Myton ±10.4 mi.



**NEWFIELD**  
Exploration Company

R-34-8-16 (Proposed Well)  
C-3-9-16 (Proposed Well)  
15-34-8-16 (Existing Well)

Pad Location: SWSE SEC. 34, T8S, R16E, S.L.B.&M.



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'

DRAWN BY: mw

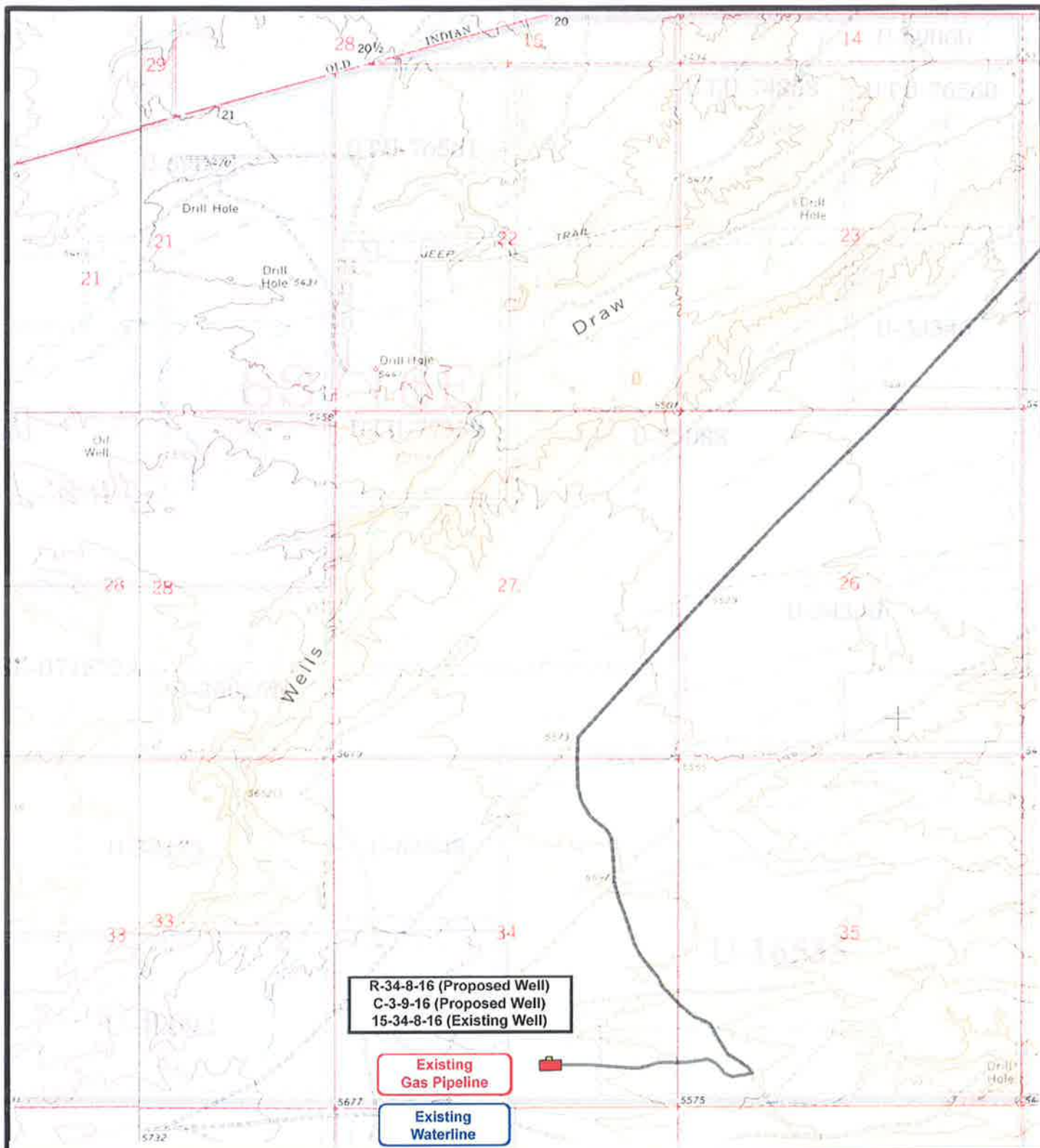
DATE: 12-21-2009

**Legend**

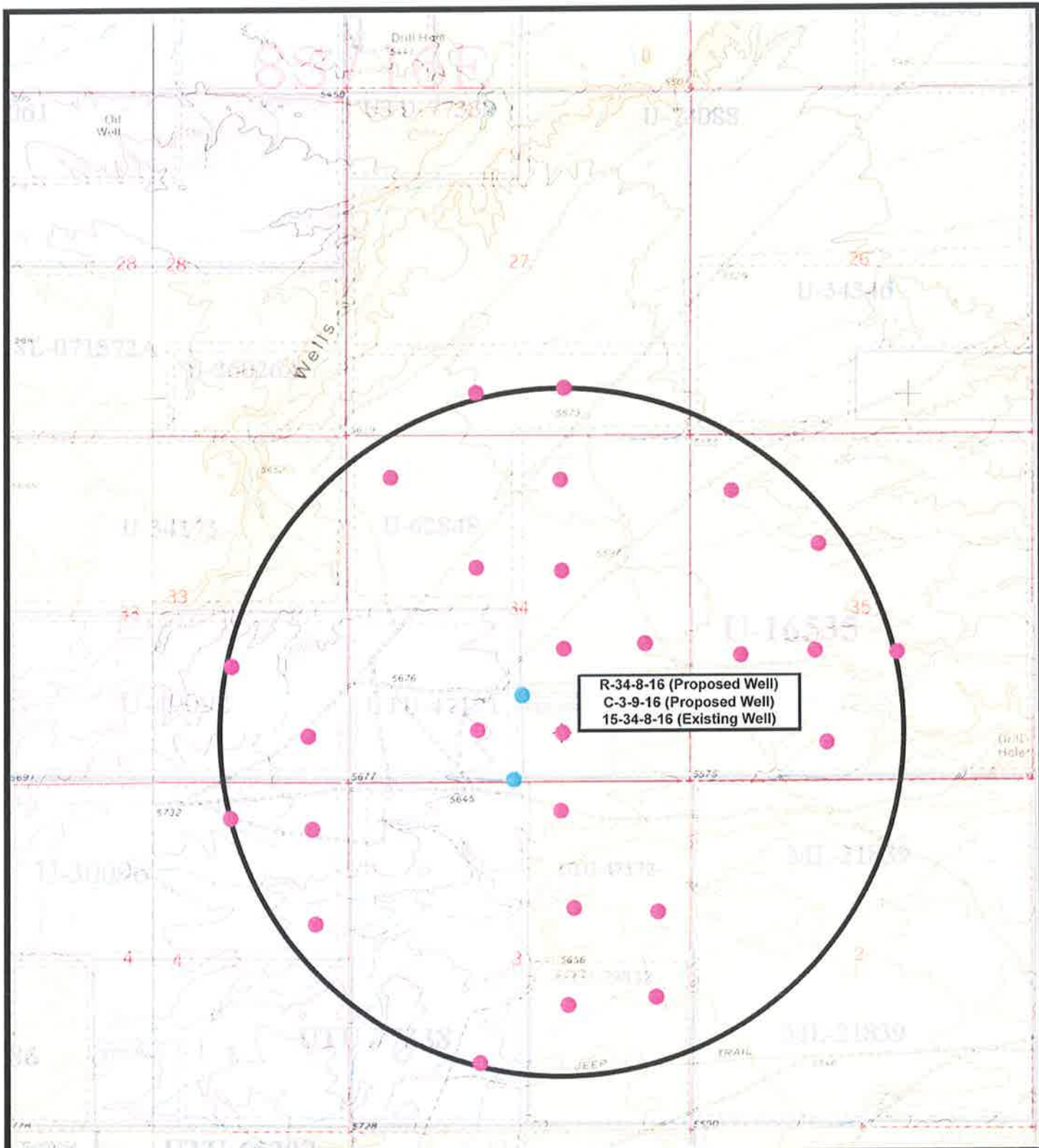
Existing Road

**TOPOGRAPHIC MAP**

**"B"**







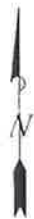
R-34-8-16 (Proposed Well)  
C-3-9-16 (Proposed Well)  
15-34-8-16 (Existing Well)



**NEWFIELD**  
Exploration Company

R-34-8-16 (Proposed Well)  
C-3-9-16 (Proposed Well)  
15-34-8-16 (Existing Well)

Pad Location: SWSE SEC. 34, T8S, R16E, S.L.B.&M.



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2000'

DRAWN BY: mw

DATE: 12-21-2009

**Legend**

- Pad Location
- Bottom Hole Location
- One-Mile Radius

**Exhibit "B"**

**NEWFIELD PRODUCTION COMPANY  
GREATER MONUMENT BUTTE R-34-8-16  
AT SURFACE: SW/SE SECTION 34, T8S, R16E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site Greater Monument Butte R-34-8-16 located in the SW 1/4 SE 1/4 Section 34, T8S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly - 6.2 miles  $\pm$  to it's junction with an existing dirt road to the southwest; proceed southwesterly - 2.8 miles  $\pm$  to it's junction with an existing road to the southeast; proceed southeasterly - 1.2 miles  $\pm$  to it's junction with an existing road to the west; proceed westerly - 0.6 miles  $\pm$  to the access road to the existing 15-34-8-16 well location.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal. Any necessary fill material for repair will be purchase and hauled from private sources.

**2. PLANNED ACCESS ROAD**

There is no proposed access road for this location. The proposed well will be drilled off of the existing 15-34-8-16 well pad. See attached **Topographic Map "B"**.

There will be **no** culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.

All construction material for this access road will be borrowed material accumulated during construction of the access road.

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

There are no existing facilities that will be used by this well.

It is anticipated that this well will be a producing oil well.

There are no existing facilities that will be used by this well.

Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six months of installation.

5. **LOCATION AND TYPE OF WATER SUPPLY**

Newfield Production will transport water by truck from nearest water source as determined by a Newfield representative for the purpose of drilling the above mentioned well. The available water sources are as follows:

Johnson Water District  
Water Right : 43-7478

Neil Moon Pond  
Water Right: 43-11787

Maurice Harvey Pond  
Water Right: 47-1358

Newfield Collector Well  
Water Right: 41-3530 (A30414DV, contracted with the Duchesne County Conservancy District).

Please refer to the Monument Butte Field SOP. See Exhibit "A".

6. **SOURCE OF CONSTRUCTION MATERIALS**

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be required in the reserve pit. However, if upon constructing the pit there is insufficient fine clay and silt present, a liner will be used for the purpose of reducing water loss through percolation.

Newfield requests approval that a flare pit not be constructed or utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), State of Utah approved surface disposal facilities, or Federally approved surface disposal facilities.

8. **ANCILLARY FACILITIES**

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. **WELL SITE LAYOUT**

See attached Location Layout Sheet.

**Fencing Requirements**

All pits will be fenced according to the following minimum standards:

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Existing fences to be crossed by the access road will be braced and tied off before cutting so as to prevent slacking in the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and upon completion of construction the fence shall be repaired to BLM specifications.

10. **PLANS FOR RESTORATION OF SURFACE:**

- a) Producing Location

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

b) Dry Hole Abandoned Location

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

11. **SURFACE OWNERSHIP** – Bureau of Land Management.

12. **OTHER ADDITIONAL INFORMATION**

Newfield Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Newfield is to immediately stop work that might further disturb such materials and contact the Authorized Officer.

a) Newfield Production will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On State administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.

b) Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on State Lands after the conclusion of drilling operations or at any other time without State authorization. However, if State authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #09-208, 12/9/09. Paleontological Resource Survey prepared by, Wade E. Miller, 10/31/09. See attached report cover pages, Exhibit "D".

**Additional Surface Stipulations**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

**Hazardous Material Declaration**

Newfield Production Company guarantees that during the drilling and completion of the Greater Monument Butte R-34-8-16, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the Greater Monument Butte R-34-8-16, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

The State office shall be notified upon site completion prior to moving on the drilling rig.

13. **LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:**

Representative

Name: Tim Eaton  
Address: Newfield Production Company  
Route 3, Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

Certification

Please be advised that Newfield Production Company is considered to be the operator of well #R-34-8-16, Duchesne County, Utah and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

1/11/10  
Date

  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

# NEWFIELD PRODUCTION COMPANY

## WELL PAD INTERFERENCE PLAT

R-34-8-16 (Proposed Well)

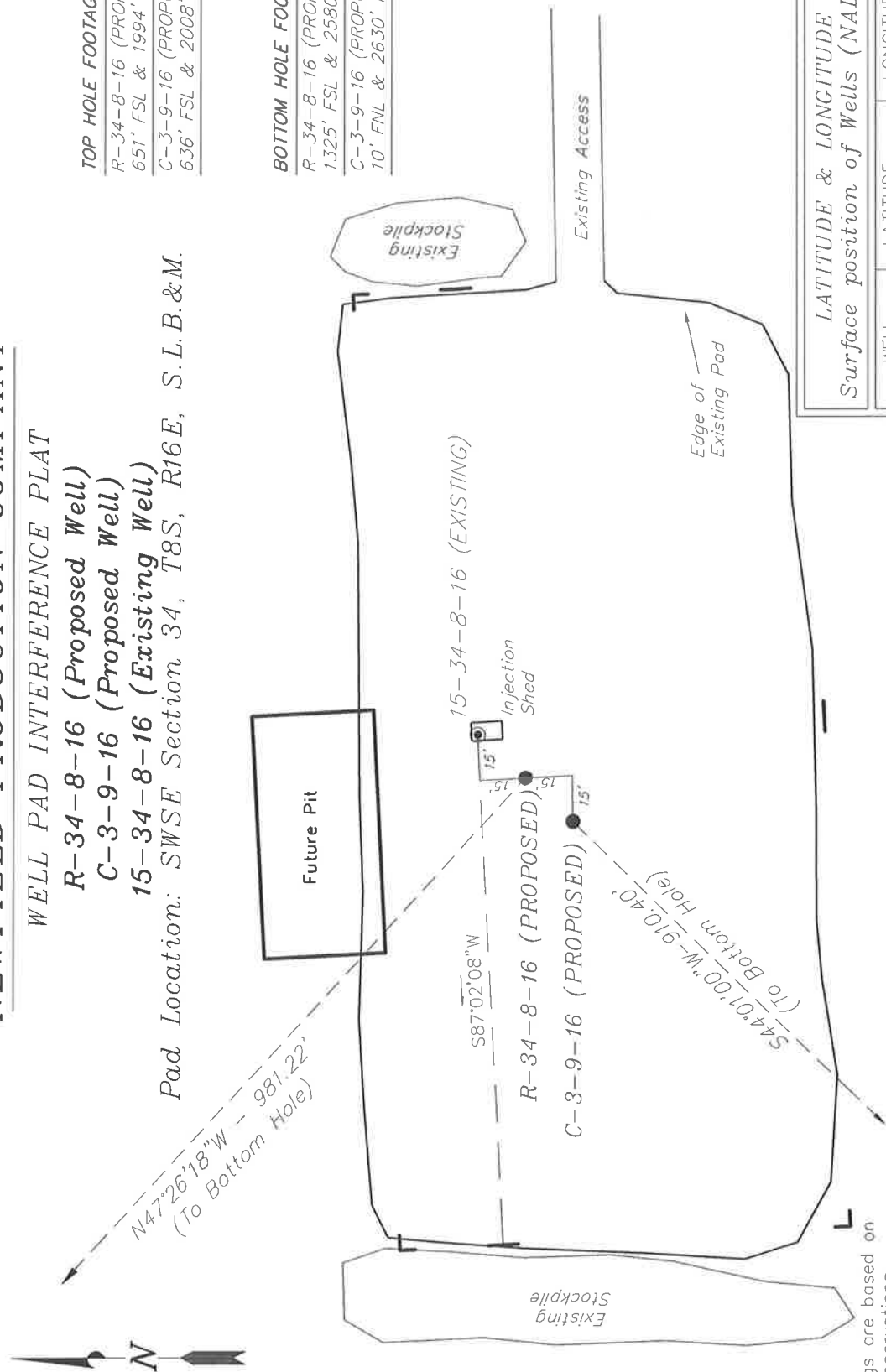
C-3-9-16 (Proposed Well)

15-34-8-16 (Existing Well)

Pad Location: SWSE Section 34, T8S, R16E, S.L.B.&M.

**TOP HOLE FOOTAGES**  
R-34-8-16 (PROPOSED)  
651' FSL & 1994' FEL  
C-3-9-16 (PROPOSED)  
636' FSL & 2008' FEL

**BOTTOM HOLE FOOTAGES**  
R-34-8-16 (PROPOSED)  
1325' FSL & 2580' FWL  
C-3-9-16 (PROPOSED)  
10' FNL & 2630' FWL



**Note:**  
Bearings are based on  
GPS Observations.

### LATITUDE & LONGITUDE Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
R-34-8-16	40° 04' 08.23"	110° 06' 11.58"
C-3-9-16	40° 04' 08.08"	110° 06' 11.77"
15-34-8-16	40° 04' 08.38"	110° 06' 11.39"

### RELATIVE COORDINATES From top hole to bottom hole

WELL	NORTH	EAST
R-34-8-16	664'	-723'
C-3-9-16	-655'	-633'

SURVEYED BY: T.H.	DATE SURVEYED: 08-10-09
DRAWN BY: F.T.M.	DATE DRAWN: 08-20-09
SCALE: 1" = 50'	REVISED: M.W. - 12-22-09

**Tri State  
Land Surveying, Inc.**

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

(435) 781-2501

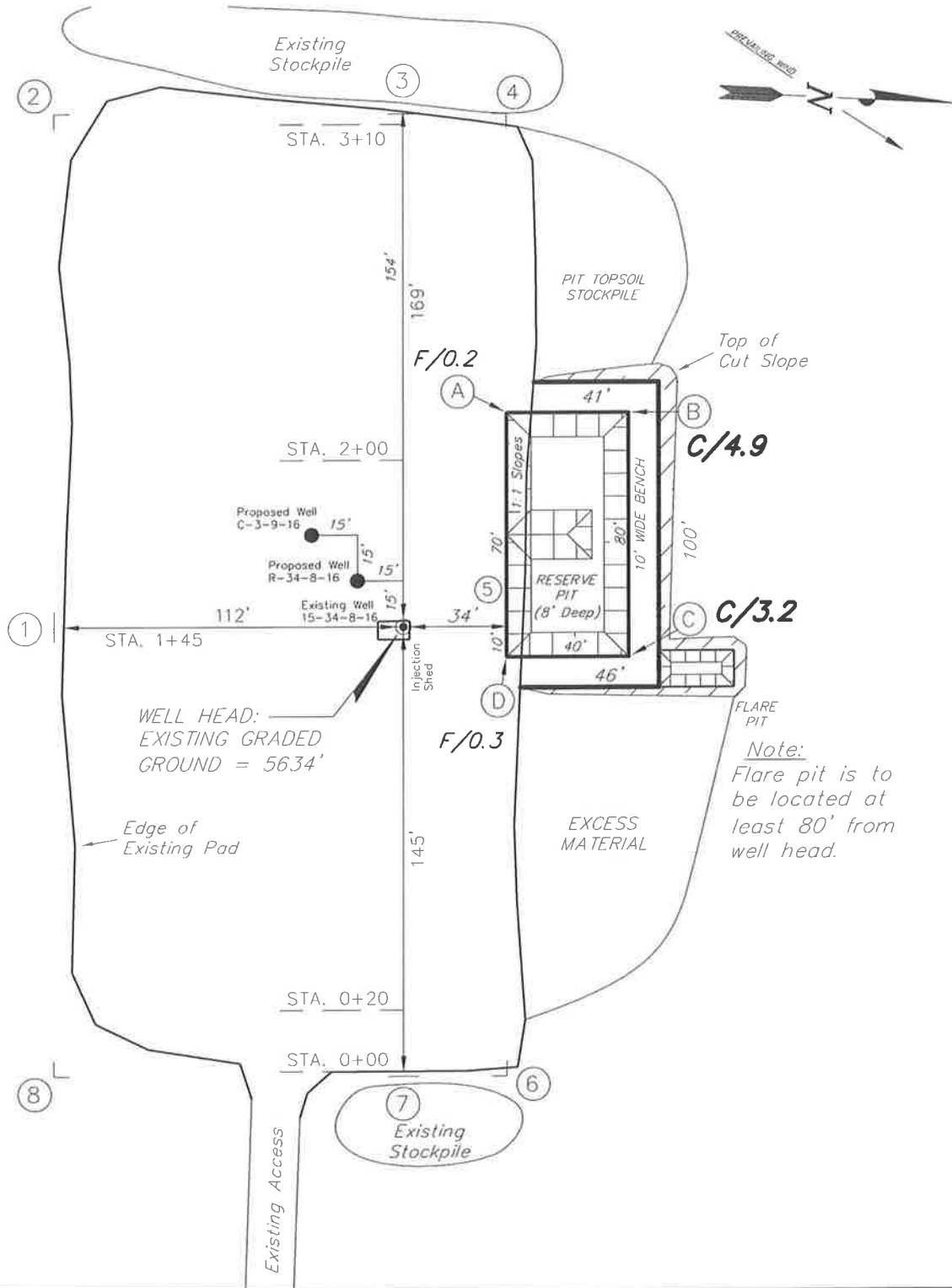
# NEWFIELD PRODUCTION COMPANY

R-34-8-16 (Proposed Well)

C-3-9-16 (Proposed Well)

15-34-8-16 (Existing Well)

Pad Location: SWSE Section 34, T8S, R16E, S.L.B.&M.



SURVEYED BY: T.H.	DATE SURVEYED: 08-10-09
DRAWN BY: F.T.M.	DATE DRAWN: 08-20-09
SCALE: 1" = 50'	REVISED: M.W. - 12-22-09

**Tri State**  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

(435) 781-2501

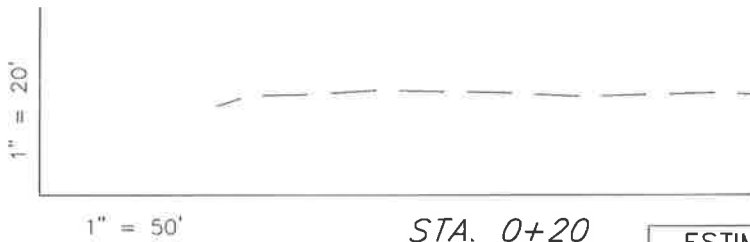
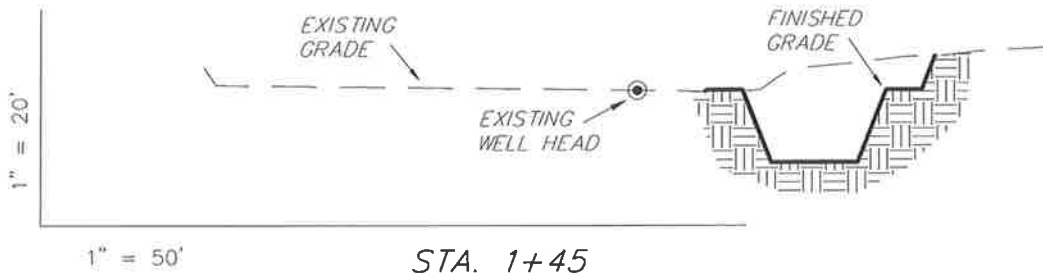
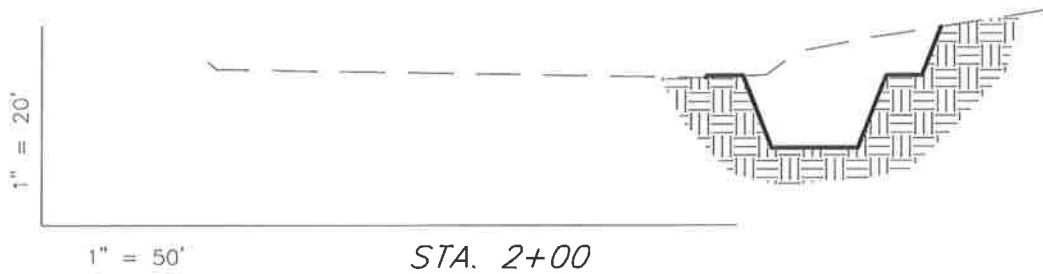
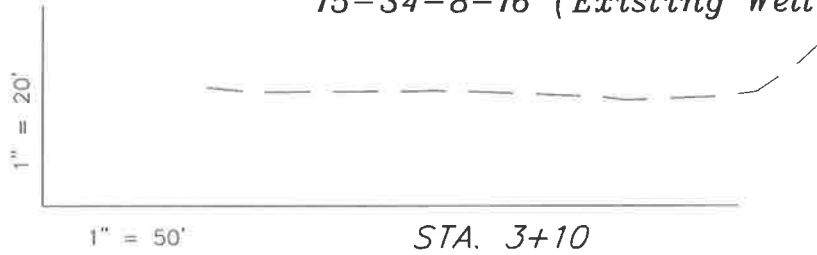
# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

R-34-8-16 (Proposed Well)

C-3-9-16 (Proposed Well)

15-34-8-16 (Existing Well)



NOTE:  
UNLESS OTHERWISE NOTED  
CUT SLOPES ARE AT 1:1  
FILL SLOPES ARE AT 1.5:1

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	470	10	Topsoil is not included in Pad Cut	460
PIT	640	0		640
TOTALS	1,110	10	140	1,100

SURVEYED BY: T.H.	DATE SURVEYED: 08-10-09
DRAWN BY: F.T.M.	DATE DRAWN: 08-20-09
SCALE: 1" = 50'	REVISED: M.W. - 12-22-09

*Tri State*  
Land Surveying, Inc.  
(435) 781-2501  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

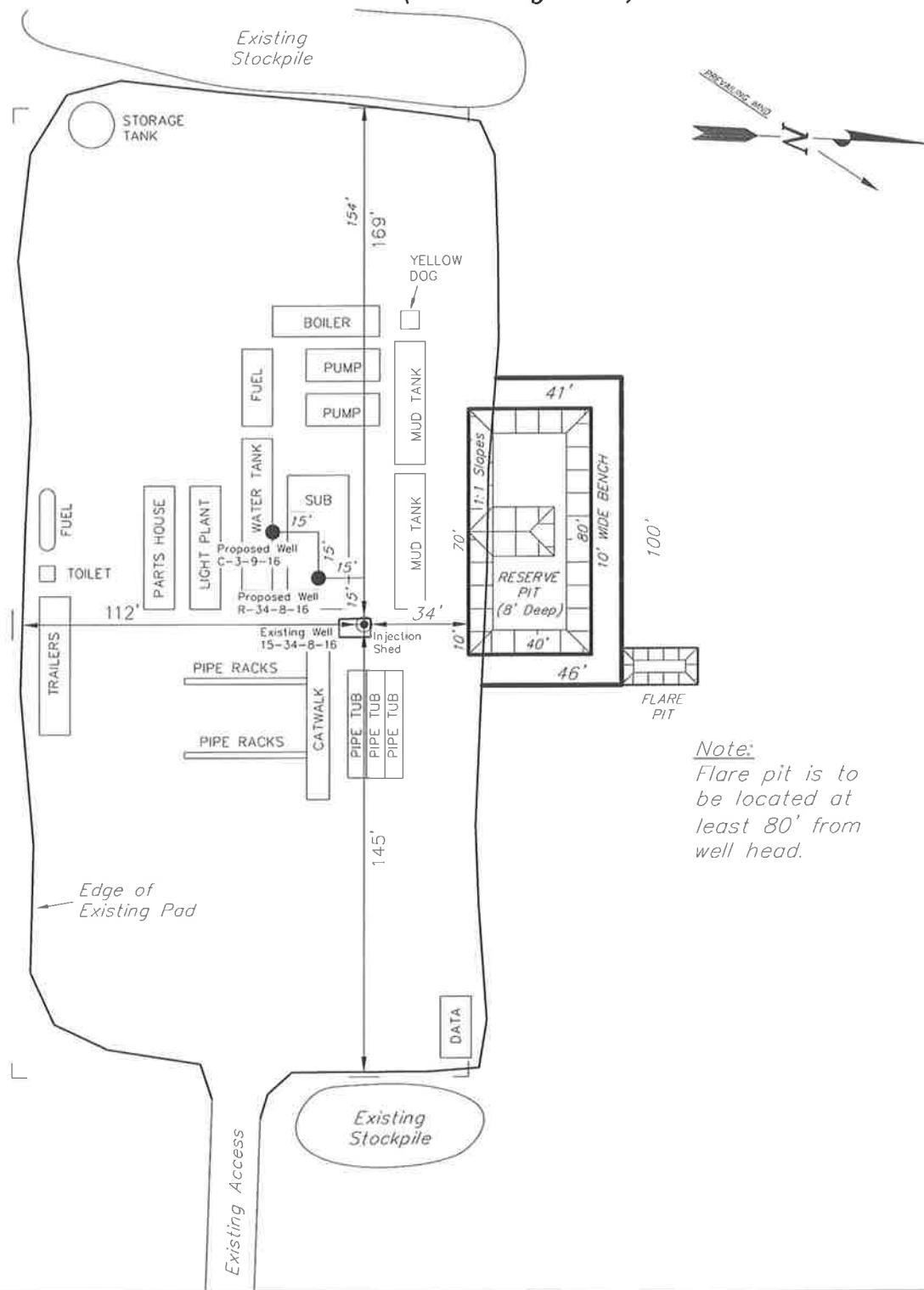
# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

R-34-8-16 (Proposed Well)

C-3-9-16 (Proposed Well)

15-34-8-16 (Existing Well)



Note:  
Flare pit is to  
be located at  
least 80' from  
well head.

SURVEYED BY: T.H.	DATE SURVEYED: 08-10-09
DRAWN BY: F.T.M.	DATE DRAWN: 08-20-09
SCALE: 1" = 50'	REVISED: M.W. - 12-22-09

Tri State  
Land Surveying, Inc.  
(435) 781-2501  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# Newfield Production Company Proposed Site Facility Diagram

Greater Monument Butte R-34-8-16

From the 15-34-8-16 Location

SW/SE Sec. 34 T8S, R16E

Duchesne County, Utah

UTU-76787

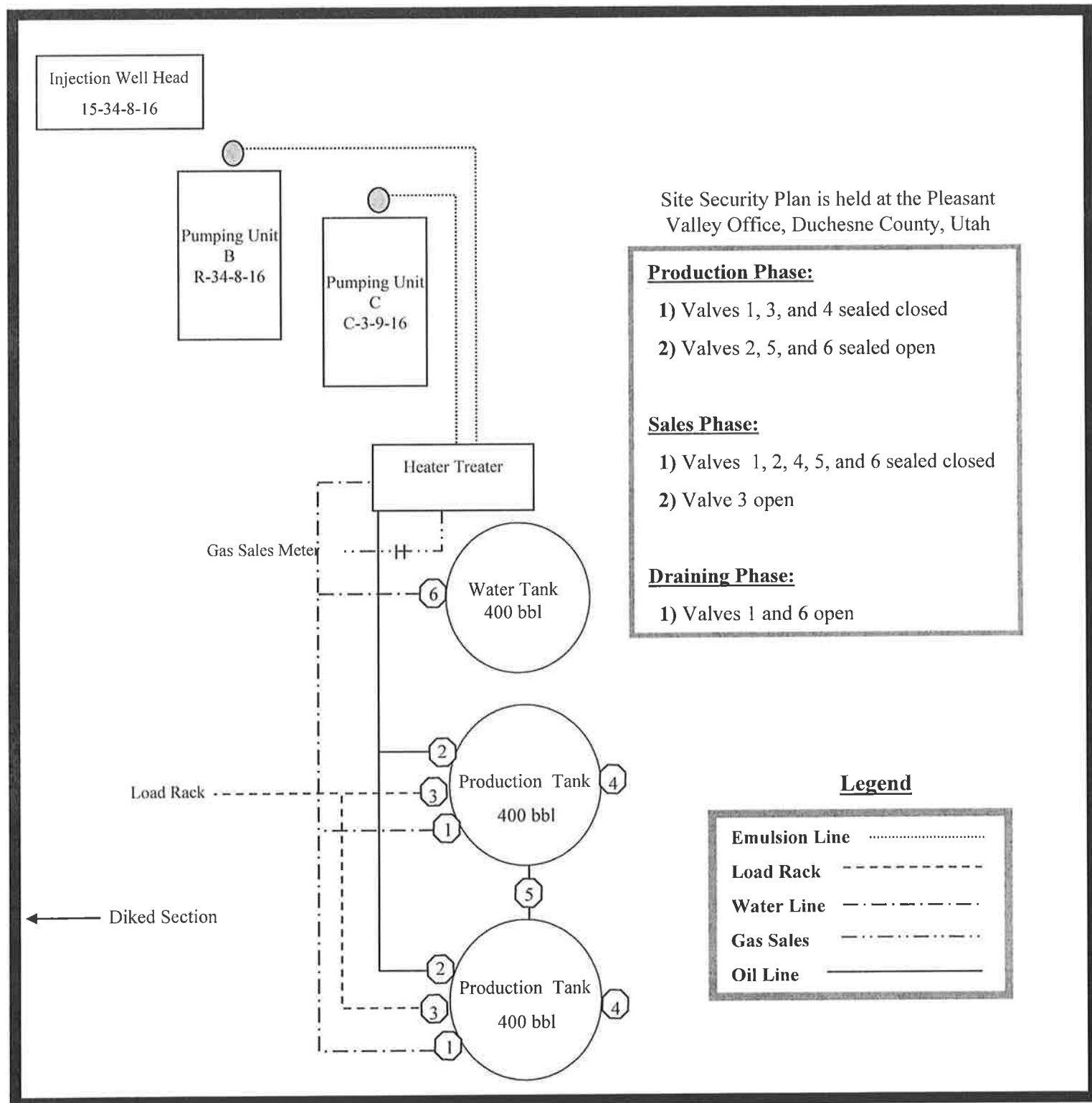


Exhibit "D"

1 of 2

CULTURAL RESOURCE INVENTORY OF  
NEWFIELD EXPLORATION'S 26 PROPOSED  
WELL LOCATIONS NEAR WELLS DRAW  
(T8S R16 SEC. 23, 24, 25, 26, 27, 34, 35 36 AND  
T9S R16E SEC. 1, 2, 5)  
DUCHESNE COUNTY, UTAH

By:

Patricia Stavish

Prepared For:

Bureau of Land Management  
Vernal Field Office  
and  
State of Utah  
School and Institutional Trust Lands Administration

Prepared Under Contract With:

Newfield Exploration Company  
Rt. 3 Box 3630  
Myton, UT 84052

Prepared By:

Montgomery Archaeological Consultants, Inc.  
P.O. Box 219  
Moab, Utah 84532

MOAC Report No. 09-208

December 9, 2009

United States Department of Interior (FLPMA)  
Permit No. 09-UT-60122

State of Utah Public Lands Policy  
Archaeological Survey Permit No. 117

State of Utah Antiquities Project (Survey)  
Permit No. U-09-MQ-0732bs

**NEWFIELD EXPLORATION COMPANY**

**PALEONTOLOGICAL SURVEY OF PROPOSED  
PRODUCTION DEVELOPMENT AREAS,  
AND PROPOSED PIPELINE ROUTES  
DUCHESNE COUNTY, UTAH**

**Area Survey**

NW 1/4, SE 1/4 Section 7, T 9 S, R 18 E (10-7-9-18)

**Proposed Directional Wells Survey**

(All sections reported are in one of the following Townships and Ranges: T 8 & 9 S, R 16, 17 & 18 E), and are for existing wells. Proposed wells are found under "Report of Areas Surveyed."

11-6-9-17, 31-1-9-16, 4-1-9-16, 5-1-9-16, 8-2-9-16, 1-14-9-16, 10-35-8-16, 15-34-8-16, 2A-35-8-16, 1A-35-8-16, 13-25-8-16, 8-5-9-16, 16-27-8-16, 11-25-8-16, 12-30-8-17, 12-25-8-16, 10-26-8-16, 15-24-8-16, 14-23-8-16

**Water Pipeline Tie-Ins Survey**

SE 1/4, NE 1/4 Section 2, T 9 S, R 16 E (8-2-9-16); SW 1/4, SW 1/4 Section 1, T 9 S, R 16 E (1-14-9-16); SE 1/4, SE 1/4, Section 27, T 8 S, R 16 E (16-27-8-16); SE 1/4, SW 1/4, Section 23, T 8 S, R 16 E (14-23-8-16)

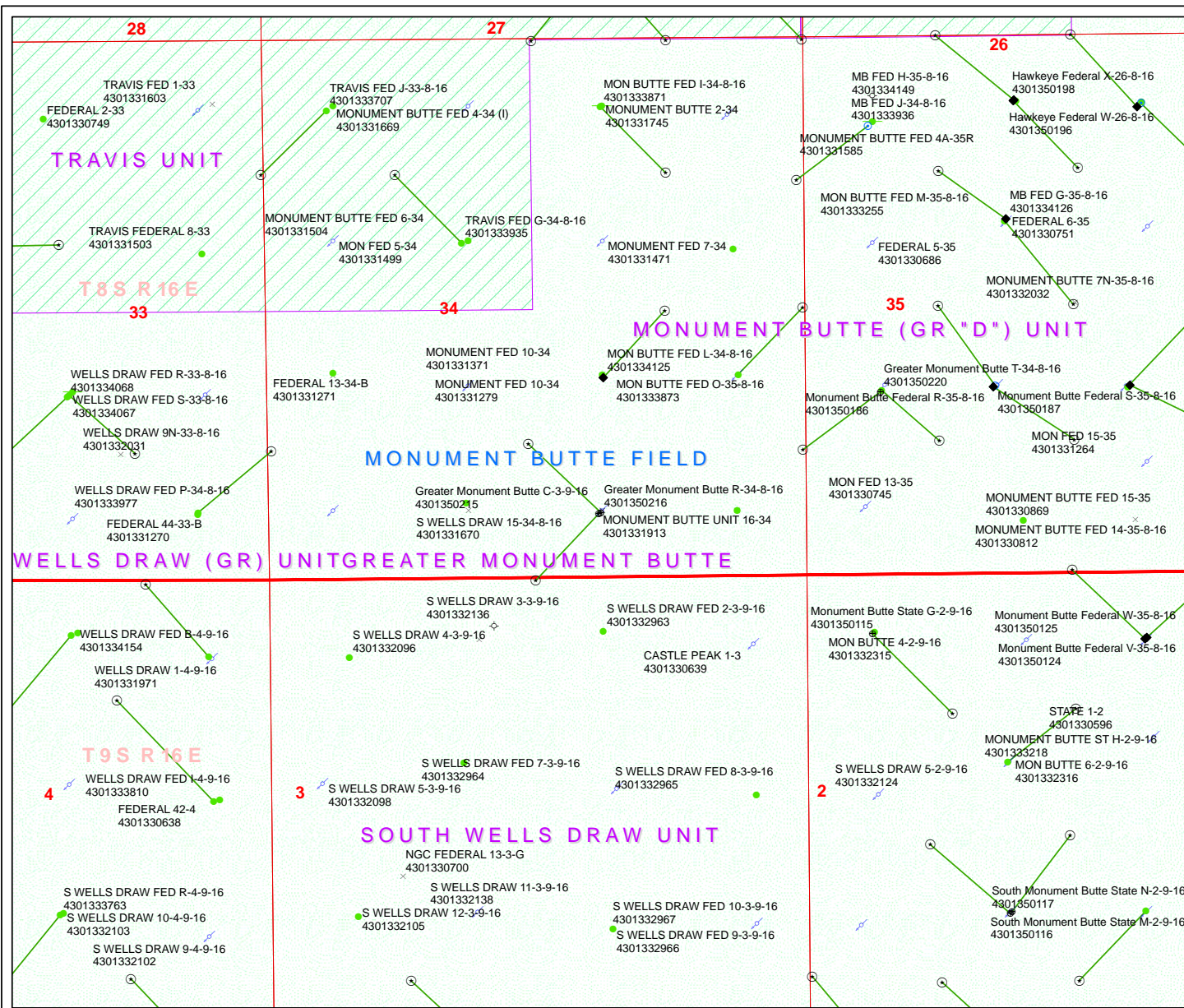
**REPORT OF SURVEY**

Prepared for:

**Newfield Exploration Company**

Prepared by:

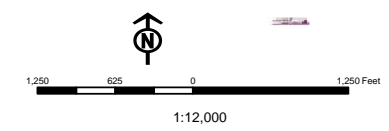
Wade E. Miller  
Consulting Paleontologist  
October 31, 2009



**API Number: 4301350216**  
**Well Name: Greater Monument Butte R-34-8-16**  
**Township 08.0 S Range 16.0 E Section 34**  
**Meridian: SLBM**  
**Operator: NEWFIELD PRODUCTION COMPANY**

Map Prepared:  
 Map Produced by Diana Mason

<b>Units</b> <b>STATUS</b> ACTIVE EXPLORATORY GAS STORAGE NF PP OIL NF SECONDARY PI OIL PP GAS PP GEOTHERMAL PP OIL SECONDARY TERMINATED <b>Fields</b> STATUS Unknown ABANDONED ACTIVE COMBINED INACTIVE STORAGE TERMINATED Sections Township	<b>Wells Query</b> Status APD - Approved Permit DRL - Drilled (Dilling Commenced) GIW - Gas Injection GS - Gas Storage LA - Location Abandoned LOC - New Location OPS - Operation Suspended PA - Plugged Abandoned PGW - Producing Gas Well POW - Producing Oil Well RET - Returned APD SGW - Shut-in Gas Well SOW - Shut-in Oil Well TA - Temp. Abandoned TW - Test Well WDW - Water Disposal WWI - Water Injection Well WSW - Water Supply Well
--	--





January 12, 2010

State of Utah, Division of Oil, Gas and Mining  
ATTN: Diana Mason  
P.O. Box 145801  
Salt Lake City, UT 84114-5801

2281

RE: Directional Drilling  
**Greater Monument Butte R-34-8-16**  
Greater Monument Butte (Green River) Unit

Surface Hole: T8S-R16E Section 34: SWSE (UTU-76787)  
651' FSL 1994' FEL

At Target: T8S-R16E Section 34: NESW (UTU-47171)  
1325' FSL 2580' FWL

Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 1/11/10, a copy of which is attached, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole and target locations of this well are both within the boundaries of the Greater Monument Butte Unit (UTU-87538X), of which Newfield certifies that it is the operator. Further, Newfield Certifies that all lands within 460 feet of the entire directional well bore are within the Greater Monument Butte Unit.

NPC is permitting this well as a directional well in order to mitigate surface disturbance by utilizing pre-existing roads and pipelines.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please contact the undersigned at 303-383-4197 or by email at [sgillespie@newfield.com](mailto:sgillespie@newfield.com). Your consideration in this matter is greatly appreciated.

Sincerely,  
Newfield Production Company

A handwritten signature in blue ink that reads "Shane Gillespie".

Shane Gillespie  
Land Associate

RECEIVED

JAN 19 2010

DIV. OF OIL, GAS & MINING

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:  
3160  
(UT-922)

January 25, 2010

### Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2010 Plan of Development Greater Monument  
Butte Unit, Duchesne and Uintah Counties,  
Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2010 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-50213	GMBU P-26-8-16	Sec 27 T08S R16E 0697 FSL 0635 FEL BHL Sec 26 T08S R16E 1325 FSL 0010 FWL
43-013-50214	GMBU E-35-8-16	Sec 27 T08S R16E 0679 FSL 0646 FEL BHL Sec 35 T08S R16E 0010 FNL 0010 FWL
43-013-50215	GMBU C-3-9-16	Sec 34 T08S R16E 0636 FSL 2008 FEL BHL Sec 03 T09S R16E 0010 FNL 2630 FWL
43-013-50216	GMBU R-34-8-16	Sec 34 T08S R16E 0651 FSL 1994 FEL BHL Sec 34 T08S R16E 1325 FSL 2580 FWL
43-013-50217	GMBU D-36-8-16	Sec 25 T08S R16E 0644 FSL 0647 FWL BHL Sec 36 T08S R16E 0010 FNL 1320 FWL
43-013-50218	GMBU E-36-8-16	Sec 25 T08S R16E 0627 FSL 0635 FWL BHL Sec 36 T08S R16E 0010 FNL 0010 FWL
43-013-50219	GMBU B-34-8-16	Sec 27 T08S R16E 0770 FSL 1998 FEL BHL Sec 34 T08S R16E 0010 FNL 1320 FEL

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-50220	GMBU T-34-8-16	Sec 35 T08S R16E 1804 FSL 0751 FWL BHL Sec 34 T08S R16E 1245 FSL 0010 FEL
43-013-50222	GMBU C-34-8-16	Sec 27 T08S R16E 0755 FSL 2013 FEL BHL Sec 34 T08S R16E 0010 FNL 2635 FEL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Greater Monument Butte Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:1-25-10

# WORKSHEET

## APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 1/12/2010

**API NO. ASSIGNED:** 43013502160000

**WELL NAME:** Greater Monument Butte R-34-8-16

**OPERATOR:** NEWFIELD PRODUCTION COMPANY (N2695)

**PHONE NUMBER:** 435 646-4825

**CONTACT:** Mandie Crozier

**PROPOSED LOCATION:** SWSE 34 080S 160E

**Permit Tech Review:** ☒

**SURFACE:** 0651 FSL 1994 FEL

**Engineering Review:** ☐

**BOTTOM:** 1325 FSL 2580 FWL

**Geology Review:** ☒

**COUNTY:** DUCHESNE

**LATITUDE:** 40.06891

**LONGITUDE:** -110.10253

**UTM SURF EASTINGS:** 576534.00

**NORTHINGS:** 4435581.00

**FIELD NAME:** MONUMENT BUTTE

**LEASE TYPE:** 1 - Federal

**LEASE NUMBER:** UTU-76787

**PROPOSED PRODUCING FORMATION(S):** GREEN RIVER

**SURFACE OWNER:** 1 - Federal

**COALBED METHANE:** NO

### RECEIVED AND/OR REVIEWED:

- ☒ **PLAT**
- ☒ **Bond:** FEDERAL - WYB000493
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☒ **Water Permit:** 43-7478
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

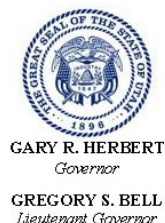
**Commingle Approved**

### LOCATION AND SITING:

- ☐ **R649-2-3.**
- Unit:** GMBU (GRRV)
- ☐ **R649-3-2. General**
- ☒ **R649-3-3. Exception**
- ☒ **Drilling Unit**
- Board Cause No:** Cause 213-11
- Effective Date:** 11/30/2009
- Siting:** Suspends General Siting
- ☒ **R649-3-11. Directional Drill**

**Comments:** Presite Completed

**Stipulations:**  
1 - Exception Location - dmason  
4 - Federal Approval - dmason  
15 - Directional - dmason  
27 - Other - bhill



# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

## Permit To Drill

\*\*\*\*\*

**Well Name:** Greater Monument Butte R-34-8-16  
**API Well Number:** 43013502160000  
**Lease Number:** UTU-76787  
**Surface Owner:** FEDERAL  
**Approval Date:** 1/26/2010

### Issued to:

NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

### Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 213-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

### Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

### Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

### Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Production casing cement shall be brought up to or above the top of the unitized interval for the Greater Monument Butte Unit (Cause No. 213-11).

### Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)

OR

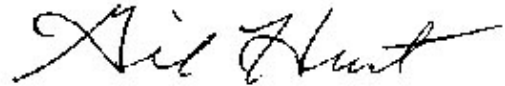
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

**Approved By:**

A handwritten signature in black ink, appearing to read "Gil Hunt", with a stylized, cursive script.

Gil Hunt  
Associate Director, Oil & Gas

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**APPLICATION FOR PERMIT TO DRILL OR REENTER**

FORM APPROVED  
OMB No. 1004-0137  
Expires July 31, 2010

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-76787
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name NA
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. Greater Monument Butte
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Greater Monument Butte R-34-8-16
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43 013 50216
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SW/SE 651' FSL 1994' FEL Sec. 34, T8S R16E (UTU-76787) At proposed prod. zone NE/SW 1325' FSL 2580' FWL Sec. 34, T8S R16E (UTU-47171)		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximately 12.2 miles southwest of Myton, UT		11. Sec., T. R. M. or Blk. and Survey or Area Sec. 34, T8S R16E
15. Distance from proposed* location to nearest property or lease line, ft. Approx. 60' f/lse, NA' f/unit (Also to nearest drig. unit line, if any)	16. No. of acres in lease 40.00	17. Spacing Unit dedicated to this well 20 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1405'	19. Proposed Depth 6,499'	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5634' GL	22. Approximate date work will start* 2nd Qtr. 2010	23. Estimated duration (7) days from SPUD to rig release
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 1/11/10
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) James H. Sparger	Date OCT 08 2010
Title Acting Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make, to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

RECEIVED

\*(Instructions on page 2)

UDOGM

RECEIVED

JAN 13 2010

NOTICE OF APPROVAL

NOV 01 2010

BLM VERNAL, UTAH

DIV. OF OIL, GAS & MINING

CONDITIONS OF APPROVAL ATTACHED

NOS 10/8/09  
105X50014A



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4401



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company:	Newfield Production Company	Location:	SWSE, Sec. 34, T8S, R16E (S) NESW, Sec. 34, T8S, R16E (B)
Well No:	Greater Monument Butte R-34-8-16	Lease No:	UTU-76787
API No:	43-013-50216	Agreement:	Greater Monument Butte Unit

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:ut_vn_opreport@blm.gov">ut_vn_opreport@blm.gov</a> .
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO<sub>x</sub> per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

**CONDITIONS OF APPROVAL:**

- Construction and drilling is not allowed from May 1<sup>st</sup> – June 15<sup>th</sup> to minimize impacts during Mountain plover nesting.
- Construction and drilling is not allowed from March 1 – August 31 to minimize impacts during burrowing owl nesting.
- If it is anticipated that construction or drilling will occur during the given timing restriction, a BLM or qualified biologist shall be notified so surveys can be conducted. Depending upon the results of the surveys, permission to proceed may or may not be recommended or granted by the BLM biologist.
- Cultural site 42Dc426, which was determined to be eligible for the National Register of Historic Places, will be avoided by 150 feet and monitored by a BLM qualified archaeologist if construction activities are within 100 meters of the site boundary.
- Prior to construction, an invasive plants/noxious weeds inventory will be completed for all areas where surface disturbance will occur, and a completed Weed Inventory Form will be submitted to the BLM Authorized Officer.

**Reclamation**

- Reclamation will be completed in accordance with the Newfield Exploration Company Castle Peak and Eight Mile Flat Reclamation Plan on file with the Vernal Field Office of the BLM.

### Seed Mix (Interim and Final Reclamation)

Common name	Latin name	lbs/acre	Recommended seed planting depth
Squirreltail grass	<i>Elymus elymoides</i>	3.0	¼ - ½"
Needle and thread grass	<i>Hesperostipa comata</i>	3.0	½"
Idaho fescue	<i>Festuca idahoensis</i>	2.0	¼ - ½"
Shadscale saltbush	<i>Atriplex confertifolia</i>	3.0	½"
Four-wing saltbush	<i>Atriplex canescens</i>	3.0	½"
Gardner's saltbush	<i>Atriplex gardneri</i>	2.0	½"
Blue flax (Lewis flax)	<i>Linum lewisii</i>	2.0	⅛ - ¼"

- All pounds are pure live seed.
- All seed and mulch will be certified weed free.
- Rates are set for drill seeding; double rate if broadcasting.

### Monitoring and Reporting

- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) that designates the proposed site-specific monitoring and reference sites chosen for the location. A description of the proposed sites shall be included, as well as a map showing the locations of the proposed sites.
- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) three (3) growing seasons after reclamation efforts have occurred evaluating the status of the reclaimed areas in order to determine whether the BLM standards set forth in the Green River District Reclamation Guidelines have been met (30% or greater basal cover).

***DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

**SITE SPECIFIC DOWNHOLE COAs:**

- Newfield Production Co. shall adhere to all referenced requirements in the SOP (version: June 24, 2008) ) along with all Oil and Gas rules and requirements listed in the Code of Federal Regulations and all Federal Onshore Oil and Gas Orders.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

Spud  
BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross # 21 Submitted  
By Ryan Crum Phone Number 823-7065  
Well Name/Number GMB R-34-8-16  
Qtr/Qtr SW/SE Section 34 Township 8s Range 16e  
Lease Serial Number UTU-76787  
API Number 43-013-50216

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 11/29/10      8:00 AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 11/29/10      2:00 AM ☐ PM ☒

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Remarks \_\_\_\_\_

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STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM -FORM 6

OPERATOR: **NEWFIELD PRODUCTION COMPANY**  
ADDRESS: **RT. 3 BOX 3630**  
**MYTON, UT 84052**

OPERATOR ACCT. NO. **N2695**

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	17886	4301350392	UTE TRIBAL 13-18-4-2	SWSW	18	4S	2W 3W	DUCHESNE	11/29/2010	12/14/10
WELL 1 COMMENTS: <b>GRRV</b>											
A	99999	17887	4304751129	UTE TRIBAL 15-19-4-2E	SWSE	19	4S	2E	UINTAH	11/24/2010	12/14/10
GRRV											
B	99999	17400	4301350216	GREATER MON BUTTE R-34-8-16	SWSE	34	8S	16E	DUCHESNE	11/29/2010	12/14/10
GRRV BHL = NESW											
B	99999	17400	4301350215	GREATER MON BUTTE C-3-9-16	SWSE	34	8S	16E	DUCHESNE	11/24/2010	12/14/10
GRRV BHL = Sec 3 T9S NENW											
A	99999	17888	4301350405	UTE TRIBAL 8-21-4-3W 8-24-4-3W	SENE	21 24	4S	3W	DUCHESNE	12/3/2010	12/14/10
GRRV											

ACTION CODES (See instructions on back of form)

- A - new entity for new well (single well only)
- B - well to existing entity (group or unit well)
- C - from one existing entity to another existing entity
- D - well from one existing entity to a new entity
- E - other (explain in comments section)

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DEC 06 2010

DIV. OF OIL, GAS & MINING

/s/  
Signature

Jentri Park

Production Clerk

12/03/10

NOTE: Use COMMENT section to explain why each Action Code was selected.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630  
Myton, UT 84052

3b. Phone (include area code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Section 34 T8S R16E

5. Lease Serial No.

USA UTU-76787

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

GMBU

8. Well Name and No.

GRTR MB R-34-8-16

9. API Well No.

4301350216

10. Field and Pool, or Exploratory Area

GREATER MB UNIT

11. County or Parish, State

DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Spud Notice _____
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 11-29-10 MIRU ROSS spud rig #21. Drill 310' of 12 1/4" hole with air mist. TIH W/7 Jt's 8 5/8" J-55 24# csgn. Set @ 324.66.  
On 12-1-10 Cement with 160 sks of Class "G" w/ 2% CaCL+ 1/4# Cello Flake. Mixed @ 15.8 ppg> 1.17 cf/sk yeild. Returned 4 bbls cement to pit.

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DEC 07 2010

DIV. OF OIL, GAS & MINING

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Xabier Lasa

Signature

Title

Drilling Foreman

Date

12/01/2010

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8" CASING SET AT 312.73

LAST CASING 14 SET AT 5  
 DATUM 12  
 DATUM TO CUT OFF CASING 12  
 DATUM TO BRADENHEAD FLANGE 12  
 TD DRILLER 12 LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4"

OPERATOR Newfield Exploration Company  
 WELL GRTR MB R-34-8-16  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # Ross # 21

## LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION		WT / FT	GRD	THREAD	CONDT	LENGTH
1		Wellhead					A	0.95
7	8 5/8"	Casing ( shoe jt. 43.75' )		24	J-55	STC	A	300.88
1	8 5/8"	Guide shoe					A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING				302.73
TOTAL LENGTH OF STRING		302.73	7	LESS CUT OFF PIECE				2
LESS NON CSG. ITEMS		1.85		PLUS DATUM TO T/CUT OFF CSG				12
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH				<b>312.73</b>
TOTAL		300.88	7	} COMPARE				
TOTAL CSG. DEL. (W/O THRDS)		300.88	7					
TIMING								
BEGIN RUN CSG.	Spud	8:00 AM	11/29/2010	GOOD CIRC THRU JOB				Yes
CSG. IN HOLE		4:00 PM	11/29/2010	Bbls CMT CIRC TO SURFACE				4
BEGIN CIRC		8:00 AM	12/1/2010	RECIPROCATED PIPE				No
BEGIN PUMP CMT		8:09 AM	12/1/2010					
BEGIN DSPL. CMT		8:19 AM	12/1/2010	BUMPED PLUG TO				313
PLUG DOWN		8:28 AM	12/1/2010					

[illegible]

COMPANY REPRESENTATIVE

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-76787
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: GMBU
3. ADDRESS OF OPERATOR: Route 3 Box 3630	CITY Myton STATE UT ZIP 84052	7. UNIT or CA AGREEMENT NAME: GMBU
4. LOCATION OF WELL: FOOTAGES AT SURFACE:		8. WELL NAME and NUMBER: GRTR MB R-34-8-16
5. OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: , 34, T8S, R16E		9. API NUMBER: 4301350216
		10. FIELD AND POOL, OR WILDCAT: GREATER MB UNIT
		COUNTY: DUCHESNE
		STATE: UT

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 01/21/2011	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well was completed on 01-21-11, attached is a daily completion status report.

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Administrative Assistant

SIGNATURE

DATE 01/25/2011

(This space for State use only)

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JAN 26 2011

DIV. OF OIL, GAS & MINING

**Daily Activity Report****Format For Sundry****GRTR MB R-34-8-16****11/1/2010 To 3/28/2011****1/6/2011 Day: 1****Completion**

Rigless on 1/6/2011 - Run CBL, and Perf stg 1. - NU frac head & Cameron BOP's. RU Hot oiler & test casing, frac head, frac valves & BOP to 4500 psi. RU WLT w/ crane & pack off tool. Run CBL under pressure. WLTD was 6500' w/ TOC @ 356'. RIH w/ 3 1/8" ported guns & perforate CP5 sds @ 6352' bottom, 6357' top w/ (11 gram, .36"EH, 16.82¢ pen. 120°) 3 spf for total of 15 shots. RD WLT & Hot Oiler. SIWFN w/ 156 BWTR.

**Daily Cost: \$0****Cumulative Cost: \$16,434**

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**1/10/2011 Day: 2****Completion**

Rigless on 1/10/2011 - Fracture stages 1, screened out, and flowed back well for 1 hour. Perforated 2nd stage but could not get perfs to break down. SWIFN. - Rig up PSI wireline. Tag sand at 6209' and perforate CP1 and CP2 sands as shown in perforation report. Rig up BJ Services. Could not get perfs to break down. 338 BWTR. SWIFN. - Crew travel and safety meeting. Rig up BJ Services. Frac Stg 1- CP5 sands as shown in stimulation report. Screen out on 1st stage 63 bbls short of total displacement while pumping flush. Flow back well for 1 hrs and recover 150 bbls of fluid. 338 BWTR

**Daily Cost: \$0****Cumulative Cost: \$24,624**

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**1/11/2011 Day: 3****Completion**

Rigless on 1/11/2011 - Tagged sand at 5649' and SWIFN. - Thaw BOP, rigged up PSI Wireline, run into hole, and tag sand at 5649'. Unable to frac since stage 2 perfs from 6006' to 6057'. SWIFN.

**Daily Cost: \$0****Cumulative Cost: \$25,239**

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**1/13/2011 Day: 4****Completion**

WWS #3 on 1/13/2011 - MIRU, nipped up 5k pipe rams, and tripped into hole with 100 joints of tubing. - Move in, rig up. Spot rig and wait on wireline to set kill plug on the C-3-9-16. Rig down wireline and nipple up 5,000 lbs pipe rams. Rig up floor and trip into hole with 100 joints of tubing to place end of tubing at 3105.48'. SWIFN at 6:00 pm. 338 BWTR.

**Daily Cost: \$0****Cumulative Cost: \$67,103**

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**1/14/2011 Day: 6****Completion**

WWS #3 on 1/14/2011 - Fraced 2nd stage with BJ Services. Fraced and perforated stages 3-6 with BJ Services and PSI Wireline. - Rig up PSI wireline. Set CFTP @ 5660' and perf A3 sands as shown in perforation report. Rig up BJ Services. Frac Stg 3- A3 sands as shown in stimulation report. 1323 BWTR. - Rig up PSI wireline. Set CFTP @ 5660' and perf A3 sands as shown in perforation report. Rig up BJ Services. Frac Stg 3- A3 sands as shown in stimulation

report. 1323 BWTR. - Crew travel and safety meeting. Rig up BJ Services. Frac Stg 2- CP2 and CP1 sands as shown in stimulation report. 915 BWTR. - Crew travel and safety meeting. Rig up BJ Services. Frac Stg 2- CP2 and CP1 sands as shown in stimulation report. 915 BWTR. - Crew travel and safety meeting. Thaw out well. Trip into hole with tubing and tag sand at 3665' and clean out 372' of sand bridge. Continue to trip into hole and tag sand bridge at 5674' and clean out 331' of sand to 6005'. Continue to trip into hole to 6115' and circulate well clean. Trip out of hole with tubing, rig down floor, and rig down tubing equipment. Nipple down Cameron pipe rams and pour 10 gals of diesel down the well. 338 BWTR. SWIFN at 6:00 pm. - Crew travel and safety meeting. Thaw out well. Trip into hole with tubing and tag sand at 3665' and clean out 372' of sand bridge. Continue to trip into hole and tag sand bridge at 5674' and clean out 331' of sand to 6005'. Continue to trip into hole to 6115' and circulate well clean. Trip out of hole with tubing, rig down floor, and rig down tubing equipment. Nipple down Cameron pipe rams and pour 10 gals of diesel down the well. 338 BWTR. SWIFN at 6:00 pm. - Rig up PSI wireline. Set CFTP @ 5410' and perf B1 and B0.5 sands as shown in perforation report. Rig up BJ Services. Frac Stg 4- B1 and B0.5 sands as shown in stimulation report. 1679 BWTR. - Open well to pit for immediate flowback @ approx. 3 bpm. Well flowed for 3 hours and well turned to oil. Recovered 430 bbls. 2088 BWTR. SWIFN. - Open well to pit for immediate flowback @ approx. 3 bpm. Well flowed for 3 hours and well turned to oil. Recovered 430 bbls. 2088 BWTR. SWIFN. - Rig up PSI wireline. Set CFTP @ 4630' and perf GB4 and GB2 sands as shown in perforation report. Rig up BJ Services. Frac Stg 6- GB4 and GB2 sands as shown in stimulation report. 2518 BWTR. - Rig up PSI wireline. Set CFTP @ 4630' and perf GB4 and GB2 sands as shown in perforation report. Rig up BJ Services. Frac Stg 6- GB4 and GB2 sands as shown in stimulation report. 2518 BWTR. - Rig up PSI wireline. Set CFTP @ 5410' and perf B1 and B0.5 sands as shown in perforation report. Rig up BJ Services. Frac Stg 4- B1 and B0.5 sands as shown in stimulation report. 1679 BWTR. - Rig up PSI wireline. Set CFTP @ 5150' and perf D1 sands as shown in perforation report. Rig up BJ Services. Frac Stg 5- D1 sands as shown in stimulation report. 2054 BWTR. - Rig up PSI wireline. Set CFTP @ 5150' and perf D1 sands as shown in perforation report. Rig up BJ Services. Frac Stg 5- D1 sands as shown in stimulation report. 2054 BWTR.

**Daily Cost:** \$0

**Cumulative Cost:** \$171,117

### 1/17/2011 Day: 7

### Completion

WWS #3 on 1/17/2011 - Set kill plug at 4430' with PSI, rigged up WWS #3, and drilled out 4 plugs. - Rig up Preferred Hot Oiler and PSI Wireline. Thaw well and rig up PSI wireline equipment using WWS #3. Pressure on well at 1700 psi. Pump 20 bbls down well and set CBP at 4430'. Rig down and turn well over to WWS #3. - Crew travel and safety meeting on ice plugs in tubing. Nipple down Cameron BOPs and frac head. Nipple up 5000# BOPs and production head. Rig up rig floor and tubing equipment. Trip in well with new 4-3/4" chomp bit and tubing. Tag kill plug at 4430', rig up RBS power swivel, and drill out plug for 39 minutes. Circulate well for 1 hour until well was workable. Continue to trip into hole, tag plug at 4630', and drill out plug for 18 minutes. Continue to trip into hole, tag plug at 5150', and drill out plug for 23 minutes. Continue to trip into hole, tag fill at 5337', clean out 73' of fill to plug at 5410', and drill out plug for 27 minutes. Circulate well clean, drain pump, and SWIFN at 5:30 pm. End of tubing at 5437'. Gained a total of 390 bbls. 1698 BWTR.

**Daily Cost:** \$0

**Cumulative Cost:** \$191,659

### 1/19/2011 Day: 8

### Completion

WWS #3 on 1/19/2011 - Drill plugs & clean out to PBTD. Flow well for clean up. Left flowing over night. - Check pressure on well, 900 psi tbg & 950 psi csg. Pump 30 BW down tbg. Continue PU tbg & tag fill @ 5565'. Clean out to plug @ 5775'. Drill out plug in 30 min.

Circulate well for 90 min until workable. Continue PU tbg & tag fill @ 6160'. Clean out to PBTD @ 6533'. Circulate well clean. RD drill equipment. LD 3- jts tbg, EOT @ 6437'. Well started flowing. Flow 140 bbls in 2 hours. Rig well up to flow down flowline. Turn over to flowback hand. 1358 BWTR.

**Daily Cost:** \$0

**Cumulative Cost:** \$208,222

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**1/20/2011 Day: 9****Completion**

WWS #3 on 1/20/2011 - Round trip tbg & start PU rods. - Well was flowing w/ 20/64 choke. Gained 220 BW overnight. Check pressure on well, 250 psi tbg & 450 psi csg. Pump 30 BW down tbg. TIH & tag PBTD (no new fill). Circualte well w/ 280 bbls brine water. LD tbg not needed for production & TOH. TIH w/ production tbg as detailed. Well started flowing halfway back in w/ tbg. Pump 20 bbls brine down tbg & continue TIH. Pump 210 bbls brine. ND BOPs. Set TA @ 6281' w/ 18,000#s tension. NU wellhead. X-over for rods. PU & prime Central Hydraulic 2 1/2" X 1 3/4" X 20' X 24' RHAC rod pump. PU 6- 1 1/2" weight rods & 200 7/8" guided rods. SWIFN. 1000 BWTR.

**Daily Cost:** \$0

**Cumulative Cost:** \$214,475

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**1/21/2011 Day: 10****Completion**

WWS #3 on 1/21/2011 - Continue PU rods & hang off on unit. - Thaw out wellhead. Check pressure on well, 1000 psi csg & 550 psi tbg. Bleed pressure off well. Continue PU rods as detailed. RU pumping unit. Stroke test pump w/ unit to 800 psi. RDMOSU. Did not PWOP, waiting on completion of C-3-8-16. 1000 BWTR. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$259,191

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**Pertinent Files: Go to File List**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: July 31, 2010

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other						5. Lease Serial No. UTU-76787			
b. Type of Completion: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resrv., Other: _____						6. If Indian, Allottee or Tribe Name			
2. Name of Operator NEWFIELD EXPLORATION COMPANY						7. Unit or CA Agreement Name and No. GMBU			
3. Address 1401 17TH ST. SUITE 1000 DENVER, CO 80202						3a. Phone No. (include area code) (435)646-3721		8. Lease Name and Well No. GREATER MON BT R-34-8-16	
4. Location of Well (Report location clearly and in accordance with Federal requirements)*  At surface 651' FSL & 1994' FEL (SW/SE) SEC. 34, T8S, R16E (UTU-76787)  At top prod. interval reported below 1211' FSL & 2599' FEL (SW/SE) SEC. 34, T8S, R16E (UTU-76787)  At total depth 1477' FSL & 2399' FWL (NE/SW) SEC. 34, T8S, R16E (UTU-47171)  BHL Reviewed by HSM						9. AFI Well No. 43-013-50216			
14. Date Spudded 11/29/2010						15. Date T.D. Reached 12/17/2010		10. Field and Pool or Exploratory GREATER MB UNIT	
16. Date Completed 01/20/2011 <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.						11. Sec., T., R., M., on Block and Survey or Area SEC. 34, T8S, R16E			
18. Total Depth: MD 6590' TVD 6461'						19. Plug Back T.D.: MD 6534' TVD 6406'		12. County or Parish DUCHESNE	
20. Depth Bridge Plug Set: MD TVD						13. State UT			
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) DUAL IND GRD, SP, COMP. DENSITY, COMP. NEUTRON, GR, CALIPER, CMT BOND						17. Elevations (DF, RKB, RT, GL)* 5634' GL 5646' KB			
22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit copy)									
23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#	0	313'		160 CLASS G			
7-7/8"	5-1/2" J-55	15.5#	0	6579'		300 PRIMLITE		356'	
						400 50/50 POZ			
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2-7/8"	EOT@ 6407'	TA @ 6281'							
25. Producing Intervals									
Formation		Top	Bottom	Perforated Interval		Size	No. Holes	Perf. Status	
A) Green River		4507'	6357'	4507-6357'		.36"	192		
B)									
C)									
D)									
26. Perforation Record									
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval		Amount and Type of Material							
4507-6357'		Frac w/ 226351#s 20/40 sand in 1658 bbls of Lightning 17 fluid in 6 stages							
28. Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
01/20/11	01/30/11	24	→	20	7.07	21			2-1/2" x 1-3/4" x 20' x 24' RHAC Pump
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status PRODUCING	
			→						
28a. Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

\*(See instructions and spaces for additional data on page 2)

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FEB 03 2011

## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

## 29. Disposition of Gas (Solid, used for fuel, vented, etc.)

USED FOR FUEL

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

## GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
GREEN RIVER	4507'	6357'		GARDEN GULCH MRK GARDEN GULCH 1	4013' 4232'
				GARDEN GULCH 2 POINT 3	4355' 4628'
				X MRKR Y MRKR	4889' 4922'
				DOUGALS CREEK MRK BI CARBONATE MRK	5045' 5299'
				B LIMESTON MRK CASTLE PEAK	5431' 5937'
				BASAL CARBONATE WASATCH	6385' 6513'

## 32. Additional remarks (include plugging procedure):

## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)     
 ☐ Geologic Report     
 ☐ DST Report     
 ☒ Directional Survey  
☐ Sundry Notice for plugging and cement verification     
 ☐ Core Analysis     
 ☒ Other: Drilling Daily Activity

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Lucy Chavez-NaupotoTitle Administrative AssistantSignature Date 01/31/2011

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



## **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)  
SECTION 34 T8S, R16E  
R-34-8-16**

**Wellbore #1**

**Design: Wellbore #1**

## **Standard Survey Report**

**23 December, 2010**



# PayZone Directional Services, LLC.

## Survey Report



Company: NEWFIELD EXPLORATION  
Project: USGS Myton SW (UT)  
Site: SECTION 34 T8S, R16E  
Well: R-34-8-16  
Wellbore: Wellbore #1  
Design: Wellbore #1

Local Co-ordinate Reference: Well R-34-8-16  
TVD Reference: R-34-8-16 @ 5646.0ft (NEWFIELD RIG)  
MD Reference: R-34-8-16 @ 5646.0ft (NEWFIELD RIG)  
North Reference: True  
Survey Calculation Method: Minimum Curvature  
Database: EDM 2003.21 Single User Db

Project USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA

Map System: US State Plane 1983  
Geo Datum: North American Datum 1983  
Map Zone: Utah Central Zone  
System Datum: Mean Sea Level

Site SECTION 34 T8S, R16E, SEC 34 T8S, R16E

Site Position: Northing: 7,199,000.00 ft Latitude: 40° 4' 29.106 N  
From: Lat/Long Easting: 2,031,000.00 ft Longitude: 110° 6' 14.985 W  
Position Uncertainty: 0.0 ft Slot Radius: " Grid Convergence: 0.89 °

Well R-34-8-16, SHL LAT: 40 04 08.23 LONG: -110 06 11.58

Well Position: +N/-S 0.0 ft Northing: 7,196,892.08 ft Latitude: 40° 4' 8.230 N  
+E/-W 0.0 ft Easting: 2,031,297.60 ft Longitude: 110° 6' 11.580 W  
Position Uncertainty: 0.0 ft Wellhead Elevation: 5,646.0 ft Ground Level: 5,634.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2009/10/14	11.53	65.86	52,472

Design Wellbore #1

### Audit Notes:

Version: 1.0 Phase: ACTUAL Tie On Depth: 0.0  
Vertical Section: Depth From (TVD) +N/-S +E/-W Direction  
(ft) (ft) (ft) (°)  
0.0 0.0 0.0 312.56

Survey Program Date 2010/12/23

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
27.0	230.0	Survey #1 (Wellbore #1)	CT_GYRO_MS	Continuous Gyro Multishot
393.0	6,590.0	Survey #2 (Wellbore #1)	MWD	MWD - Standard

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
27.0	0.44	28.24	27.0	0.1	0.0	0.0	1.63	1.63	0.00
42.0	0.47	15.14	42.0	0.2	0.1	0.1	0.72	0.20	-87.33
57.0	0.38	11.57	57.0	0.3	0.1	0.1	0.63	-0.60	-23.80
72.0	0.47	0.14	72.0	0.4	0.1	0.2	0.82	0.60	-76.20
87.0	0.49	9.52	87.0	0.5	0.1	0.3	0.54	0.13	62.53
102.0	0.54	27.28	102.0	0.7	0.2	0.3	1.11	0.33	118.40
117.0	0.58	46.86	117.0	0.8	0.3	0.3	1.30	0.27	130.53
132.0	0.73	74.13	132.0	0.9	0.4	0.3	2.28	1.00	181.80
147.0	0.97	71.92	147.0	0.9	0.6	0.2	1.61	1.60	-14.73
162.0	0.90	71.31	162.0	1.0	0.9	0.0	0.47	-0.47	-4.07
177.0	0.94	71.81	177.0	1.1	1.1	-0.1	0.27	0.27	3.33



# PayZone Directional Services, LLC.

## Survey Report



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North Reference: True  
Survey Calculation Method: Minimum Curvature  
Database: EDM 2003.21 Single User Db

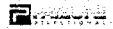
### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
192.0	0.95	71.29	192.0	1.2	1.3	-0.2	0.09	0.07	-3.47
207.0	0.90	67.23	207.0	1.2	1.6	-0.3	0.55	-0.33	-27.07
222.0	0.76	65.68	222.0	1.3	1.8	-0.4	0.95	-0.93	-10.33
230.0	0.76	65.68	230.0	1.4	1.8	-0.4	0.00	0.00	0.00
393.0	0.37	357.60	393.0	2.3	2.8	-0.5	0.44	-0.24	-41.77
423.0	0.40	322.16	423.0	2.5	2.7	-0.3	0.79	0.10	-118.13
454.0	0.70	324.80	454.0	2.8	2.6	0.0	0.97	0.97	8.52
484.0	0.97	327.56	484.0	3.1	2.3	0.4	0.91	0.90	9.20
515.0	1.49	324.48	515.0	3.7	2.0	1.1	1.69	1.68	-9.94
546.0	2.07	326.77	545.9	4.5	1.4	2.0	1.88	1.87	7.39
576.0	2.72	322.38	575.9	5.5	0.7	3.2	2.25	2.17	-14.63
607.0	3.34	316.84	606.9	6.7	-0.4	4.8	2.21	2.00	-17.87
637.0	3.74	312.93	636.8	8.0	-1.7	6.7	1.56	1.33	-13.03
668.0	4.10	311.90	667.7	9.5	-3.3	8.8	1.18	1.16	-3.32
698.0	4.60	310.60	697.7	11.0	-5.0	11.1	1.70	1.67	-4.33
729.0	5.00	310.40	728.6	12.7	-7.0	13.7	1.29	1.29	-0.65
760.0	5.30	312.50	759.4	14.5	-9.0	16.5	1.14	0.97	6.77
790.0	5.70	313.10	789.3	16.4	-11.1	19.3	1.35	1.33	2.00
821.0	6.10	314.80	820.1	18.7	-13.4	22.5	1.41	1.29	5.48
851.0	6.40	317.00	849.9	21.0	-15.7	25.8	1.28	1.00	7.33
883.0	7.10	318.40	881.7	23.8	-18.2	29.5	2.25	2.19	4.38
915.0	7.80	317.70	913.5	26.9	-21.0	33.7	2.21	2.19	-2.19
946.0	8.40	317.00	944.1	30.1	-24.0	38.0	1.96	1.94	-2.26
978.0	9.00	316.10	975.8	33.6	-27.3	42.8	1.92	1.88	-2.81
1,010.0	9.40	315.70	1,007.4	37.3	-30.9	47.9	1.27	1.25	-1.25
1,042.0	9.90	314.20	1,038.9	41.1	-34.7	53.3	1.75	1.56	-4.69
1,073.0	10.40	313.00	1,069.4	44.8	-38.6	58.8	1.75	1.61	-3.87
1,105.0	10.80	313.60	1,100.9	48.9	-42.9	64.7	1.30	1.25	1.88
1,137.0	11.20	314.00	1,132.3	53.1	-47.3	70.8	1.27	1.25	1.25
1,169.0	11.80	313.20	1,163.7	57.5	-51.9	77.1	1.94	1.88	-2.50
1,200.0	12.40	311.70	1,194.0	61.9	-56.7	83.6	2.18	1.94	-4.84
1,232.0	13.00	311.10	1,225.2	66.5	-62.0	90.7	1.92	1.88	-1.88
1,264.0	13.50	311.00	1,256.3	71.3	-67.5	98.0	1.56	1.56	-0.31
1,295.0	13.90	311.30	1,286.4	76.2	-73.1	105.3	1.31	1.29	0.97
1,327.0	14.00	310.87	1,317.5	81.2	-78.9	113.0	0.45	0.31	-1.34
1,359.0	14.30	311.00	1,348.5	86.4	-84.8	120.9	0.94	0.94	0.41
1,391.0	14.10	311.00	1,379.6	91.5	-90.7	128.7	0.63	-0.63	0.00
1,422.0	14.50	312.00	1,409.6	96.6	-96.4	136.4	1.52	1.29	3.23
1,454.0	15.10	312.90	1,440.5	102.1	-102.5	144.5	2.01	1.88	2.81
1,485.0	15.30	312.70	1,470.4	107.6	-108.4	152.7	0.67	0.65	-0.65
1,516.0	15.40	312.40	1,500.3	113.2	-114.5	160.9	0.41	0.32	-0.97
1,548.0	15.50	311.90	1,531.2	118.9	-120.8	169.4	0.52	0.31	-1.56
1,580.0	16.00	311.80	1,562.0	124.7	-127.3	178.1	1.56	1.56	-0.31
1,612.0	16.13	312.62	1,592.7	130.6	-133.8	186.9	0.82	0.41	2.56
1,643.0	16.20	312.90	1,622.5	136.5	-140.2	195.6	0.34	0.23	0.90
1,675.0	16.44	312.80	1,653.2	142.6	-146.8	204.6	0.76	0.75	-0.31
1,707.0	16.52	313.33	1,683.9	148.8	-153.4	213.6	0.53	0.25	1.66
1,739.0	16.60	312.70	1,714.6	155.0	-160.1	222.8	0.61	0.25	-1.97
1,770.0	16.26	312.84	1,744.3	161.0	-166.5	231.5	1.10	-1.10	0.45
1,802.0	16.10	312.70	1,775.0	167.1	-173.0	240.4	0.51	-0.50	-0.44
1,834.0	16.10	312.60	1,805.8	173.1	-179.6	249.3	0.09	0.00	-0.31
1,866.0	16.04	310.73	1,836.5	179.0	-186.2	258.2	1.63	-0.19	-5.84
1,897.0	15.79	309.46	1,866.3	184.4	-192.7	266.7	1.38	-0.81	-4.10
1,929.0	15.40	309.60	1,897.2	189.9	-199.3	275.3	1.22	-1.22	0.44



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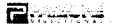
### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,960.0	14.90	308.70	1,927.1	195.0	-205.6	283.3	1.78	-1.61	-2.90
1,992.0	14.70	309.50	1,958.0	200.2	-212.0	291.5	0.89	-0.63	2.50
2,024.0	14.28	308.62	1,989.0	205.2	-218.2	299.5	1.48	-1.31	-2.75
2,055.0	14.10	309.50	2,019.1	210.0	-224.1	307.1	0.91	-0.58	2.84
2,087.0	13.75	311.44	2,050.1	215.0	-229.9	314.8	1.82	-1.09	6.06
2,119.0	12.90	312.30	2,081.3	219.9	-235.4	322.2	2.73	-2.66	2.69
2,151.0	12.30	311.70	2,112.5	224.6	-240.6	329.1	1.92	-1.88	-1.88
2,183.0	12.00	309.40	2,143.8	229.0	-245.7	335.9	1.78	-0.94	-7.19
2,214.0	11.60	307.20	2,174.1	232.9	-250.7	342.2	1.94	-1.29	-7.10
2,246.0	11.20	308.10	2,205.5	236.8	-255.7	348.5	1.37	-1.25	2.81
2,277.0	10.70	309.00	2,235.9	240.4	-260.3	354.4	1.70	-1.61	2.90
2,309.0	10.33	311.04	2,267.4	244.2	-264.8	360.2	1.64	-1.16	6.38
2,341.0	10.10	313.50	2,298.9	248.0	-269.0	365.9	1.54	-0.72	7.69
2,372.0	10.02	316.71	2,329.4	251.8	-272.8	371.3	1.83	-0.26	10.35
2,404.0	9.93	316.90	2,360.9	255.9	-276.6	376.8	0.30	-0.28	0.59
2,436.0	10.00	317.20	2,392.4	259.9	-280.4	382.3	0.27	0.22	0.94
2,467.0	10.30	316.10	2,423.0	263.9	-284.1	387.8	1.15	0.97	-3.55
2,499.0	11.00	315.20	2,454.4	268.1	-288.3	393.7	2.25	2.19	-2.81
2,531.0	11.29	313.72	2,485.8	272.5	-292.7	399.9	1.27	0.91	-4.63
2,563.0	11.40	311.30	2,517.2	276.7	-297.3	406.2	1.53	0.34	-7.56
2,594.0	11.40	311.00	2,547.6	280.7	-301.9	412.3	0.19	0.00	-0.97
2,626.0	11.30	313.80	2,578.9	285.0	-306.6	418.6	1.75	-0.31	8.75
2,658.0	11.10	315.30	2,610.3	289.4	-311.0	424.8	1.10	-0.63	4.69
2,689.0	11.20	315.80	2,640.7	293.6	-315.2	430.8	0.45	0.32	1.61
2,721.0	11.51	315.61	2,672.1	298.1	-319.6	437.1	0.98	0.97	-0.59
2,752.0	11.80	315.30	2,702.5	302.6	-324.0	443.3	0.96	0.94	-1.00
2,784.0	12.10	315.30	2,733.8	307.3	-328.7	449.9	0.94	0.94	0.00
2,816.0	12.10	314.10	2,765.1	312.0	-333.4	456.6	0.79	0.00	-3.75
2,848.0	11.80	312.80	2,796.4	316.6	-338.2	463.3	1.26	-0.94	-4.06
2,879.0	12.20	313.10	2,826.7	321.0	-342.9	469.7	1.31	1.29	0.97
2,912.0	12.70	313.50	2,858.9	325.9	-348.1	476.8	1.54	1.52	1.21
2,944.0	12.90	312.80	2,890.1	330.7	-353.3	483.9	0.79	0.63	-2.19
2,976.0	13.10	312.90	2,921.3	335.6	-358.6	491.1	0.63	0.63	0.31
3,008.0	13.40	314.50	2,952.5	340.7	-363.9	498.4	1.48	0.94	5.00
3,040.0	13.80	314.80	2,983.6	346.0	-369.2	506.0	1.27	1.25	0.94
3,072.0	14.20	315.70	3,014.6	351.5	-374.7	513.7	1.42	1.25	2.81
3,103.0	14.60	315.70	3,044.6	357.0	-380.1	521.4	1.29	1.29	0.00
3,135.0	14.70	316.30	3,075.6	362.8	-385.7	529.5	0.57	0.31	1.88
3,167.0	15.10	316.80	3,106.5	368.8	-391.3	537.7	1.31	1.25	1.56
3,198.0	14.80	316.10	3,136.5	374.6	-396.9	545.7	1.13	-0.97	-2.26
3,230.0	14.10	314.80	3,167.5	380.3	-402.5	553.6	2.41	-2.19	-4.06
3,262.0	13.40	312.70	3,198.5	385.5	-407.9	561.2	2.69	-2.19	-6.56
3,293.0	13.10	312.80	3,228.7	390.3	-413.2	568.3	0.97	-0.97	0.32
3,325.0	13.10	312.70	3,259.9	395.3	-418.5	575.6	0.07	0.00	-0.31
3,357.0	13.00	310.50	3,291.1	400.1	-423.9	582.8	1.58	-0.31	-6.88
3,389.0	12.40	309.60	3,322.3	404.6	-429.3	589.8	1.97	-1.88	-2.81
3,421.0	12.30	308.50	3,353.5	408.9	-434.6	596.7	0.80	-0.31	-3.44
3,453.0	12.50	308.40	3,384.8	413.2	-440.0	603.5	0.63	0.63	-0.31
3,484.0	12.90	308.90	3,415.0	417.4	-445.3	610.3	1.34	1.29	1.61
3,516.0	13.10	309.50	3,446.2	422.0	-450.9	617.5	0.75	0.63	1.88
3,548.0	13.30	309.80	3,477.4	426.6	-456.5	624.8	0.66	0.63	0.94
3,580.0	13.00	309.80	3,508.5	431.3	-462.1	632.1	0.94	-0.94	0.00
3,611.0	13.30	310.00	3,538.7	435.8	-467.5	639.1	0.98	0.97	0.65
3,642.0	13.30	311.10	3,568.9	440.5	-472.9	646.3	0.82	0.00	3.55



# PayZone Directional Services, LLC.

## Survey Report



Company: NEWFIELD EXPLORATION  
Project: USGS Myton SW (UT)  
Site: SECTION 34 T8S, R16E  
Well: R-34-8-16  
Wellbore: Wellbore #1  
Design: Wellbore #1

Local Co-ordinate Reference: Well R-34-8-16  
TVD Reference: R-34-8-16 @ 5646.0ft (NEWFIELD RIG)  
MD Reference: R-34-8-16 @ 5646.0ft (NEWFIELD RIG)  
North Reference: True  
Survey Calculation Method: Minimum Curvature  
Database: EDM 2003.21 Single User Db

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,674.0	13.50	311.50	3,600.0	445.4	-478.5	653.7	0.69	0.63	1.25
3,706.0	13.80	311.70	3,631.1	450.4	-484.1	661.2	0.95	0.94	0.63
3,737.0	13.70	312.80	3,661.2	455.3	-489.6	668.6	0.90	-0.32	3.55
3,769.0	13.60	313.20	3,692.3	460.5	-495.1	676.1	0.43	-0.31	1.25
3,801.0	13.40	312.90	3,723.4	465.6	-500.6	683.6	0.66	-0.63	-0.94
3,832.0	13.40	312.30	3,753.6	470.4	-505.9	690.8	0.45	0.00	-1.94
3,864.0	13.10	311.70	3,784.7	475.3	-511.3	698.1	1.03	-0.94	-1.88
3,895.0	12.90	311.90	3,814.9	480.0	-516.5	705.1	0.66	-0.65	0.65
3,927.0	12.44	312.00	3,846.2	484.7	-521.7	712.1	1.44	-1.44	0.31
3,959.0	11.90	311.10	3,877.4	489.2	-526.8	718.9	1.79	-1.69	-2.81
3,991.0	11.30	310.70	3,908.8	493.4	-531.6	725.3	1.89	-1.88	-1.25
4,023.0	10.90	310.40	3,940.2	497.4	-536.3	731.4	1.26	-1.25	-0.94
4,055.0	10.60	310.70	3,971.6	501.3	-540.9	737.4	0.95	-0.94	0.94
4,087.0	10.70	310.10	4,003.1	505.1	-545.4	743.3	0.47	0.31	-1.88
4,118.0	10.50	311.80	4,033.5	508.8	-549.7	749.0	1.20	-0.65	5.48
4,149.0	10.80	311.60	4,064.0	512.6	-553.9	754.8	0.98	0.97	-0.65
4,181.0	11.00	311.80	4,095.4	516.7	-558.5	760.8	0.64	0.63	0.63
4,211.0	11.30	312.10	4,124.9	520.5	-562.8	766.6	1.02	1.00	1.00
4,243.0	11.30	312.10	4,156.2	524.8	-567.4	772.9	0.00	0.00	0.00
4,275.0	11.50	313.80	4,187.6	529.1	-572.1	779.2	1.22	0.63	5.31
4,306.0	11.60	314.40	4,218.0	533.4	-576.5	785.4	0.50	0.32	1.94
4,338.0	11.70	315.00	4,249.3	537.9	-581.1	791.9	0.49	0.31	1.88
4,370.0	11.80	314.70	4,280.7	542.5	-585.7	798.4	0.37	0.31	-0.94
4,401.0	12.00	314.20	4,311.0	547.0	-590.3	804.8	0.73	0.65	-1.61
4,433.0	11.90	312.40	4,342.3	551.5	-595.1	811.4	1.21	-0.31	-5.63
4,465.0	11.90	311.10	4,373.6	555.9	-600.0	818.0	0.84	0.00	-4.06
4,497.0	11.80	310.50	4,404.9	560.2	-605.0	824.5	0.50	-0.31	-1.88
4,528.0	11.80	311.10	4,435.3	564.4	-609.8	830.9	0.40	0.00	1.94
4,560.0	11.60	311.30	4,466.6	568.6	-614.7	837.4	0.64	-0.63	0.63
4,592.0	11.10	312.10	4,498.0	572.8	-619.4	843.7	1.64	-1.56	2.50
4,623.0	10.80	312.40	4,528.4	576.8	-623.8	849.6	0.99	-0.97	0.97
4,655.0	10.60	313.00	4,559.9	580.8	-628.1	855.5	0.72	-0.63	1.88
4,687.0	10.30	313.20	4,591.3	584.8	-632.4	861.3	0.94	-0.94	0.63
4,720.0	9.60	312.40	4,623.8	588.7	-636.5	867.0	2.16	-2.12	-2.42
4,750.0	9.00	313.10	4,653.4	592.0	-640.1	871.9	2.04	-2.00	2.33
4,782.0	9.00	312.40	4,685.0	595.4	-643.8	876.9	0.34	0.00	-2.19
4,813.0	9.40	311.50	4,715.6	598.7	-647.5	881.8	1.37	1.29	-2.90
4,845.0	9.70	311.70	4,747.2	602.2	-651.4	887.1	0.94	0.94	0.63
4,877.0	10.20	312.10	4,778.7	605.9	-655.5	892.7	1.58	1.56	1.25
4,909.0	10.40	311.20	4,810.2	609.7	-659.8	898.4	0.80	0.63	-2.81
4,940.0	10.60	311.30	4,840.7	613.4	-664.1	904.0	0.65	0.65	0.32
4,972.0	10.90	309.60	4,872.1	617.3	-668.6	910.0	1.36	0.94	-5.31
5,004.0	11.10	308.90	4,903.5	621.1	-673.3	916.1	0.75	0.63	-2.19
5,035.0	11.20	309.70	4,934.0	624.9	-678.0	922.1	0.59	0.32	2.58
5,068.0	11.30	309.30	4,966.3	629.0	-682.9	928.5	0.38	0.30	-1.21
5,100.0	11.40	310.40	4,997.7	633.1	-687.8	934.8	0.75	0.31	3.44
5,132.0	11.40	311.00	5,029.1	637.2	-692.6	941.1	0.37	0.00	1.88
5,163.0	11.20	311.00	5,059.5	641.2	-697.2	947.2	0.65	-0.65	0.00
5,195.0	11.10	310.60	5,090.9	645.2	-701.8	953.4	0.40	-0.31	-1.25
5,227.0	11.00	309.50	5,122.3	649.2	-706.5	959.5	0.73	-0.31	-3.44
5,258.0	11.10	309.10	5,152.7	652.9	-711.1	965.4	0.41	0.32	-1.29
5,290.0	11.10	309.00	5,184.1	656.8	-715.9	971.6	0.06	0.00	-0.31
5,322.0	11.10	308.40	5,215.5	660.7	-720.7	977.7	0.36	0.00	-1.88
5,354.0	10.80	308.80	5,246.9	664.5	-725.5	983.8	0.97	-0.94	1.25



# PayZone Directional Services, LLC.

## Survey Report



Company: NEWFIELD EXPLORATION  
Project: USGS Myton SW (UT)  
Site: SECTION 34 T8S, R16E  
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Wellbore: Wellbore #1  
Design: Wellbore #1

Local Co-ordinate Reference: Well R-34-8-16  
TVD Reference: R-34-8-16 @ 5646.0ft (NEWFIELD RIG)  
MD Reference: R-34-8-16 @ 5646.0ft (NEWFIELD RIG)  
North Reference: True  
Survey Calculation Method: Minimum Curvature  
Database: EDM 2003.21 Single User Db

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,385.0	10.50	308.80	5,277.4	668.0	-729.9	989.5	0.97	-0.97	0.00
5,405.7	10.37	309.07	5,297.8	670.4	-732.9	993.2	0.69	-0.65	1.28
<b>R-34-8-16 TGT</b>									
5,416.0	10.30	309.20	5,307.9	671.6	-734.3	995.1	0.69	-0.64	1.31
5,449.0	10.30	311.90	5,340.3	675.4	-738.8	1,001.0	1.46	0.00	8.18
5,480.0	10.20	314.40	5,370.8	679.2	-742.8	1,006.5	1.47	-0.32	8.06
5,512.0	10.30	314.60	5,402.3	683.2	-746.9	1,012.2	0.33	0.31	0.63
5,544.0	10.30	314.30	5,433.8	687.2	-750.9	1,017.9	0.17	0.00	-0.94
5,575.0	10.50	314.60	5,464.3	691.1	-754.9	1,023.5	0.67	0.65	0.97
5,607.0	10.40	316.40	5,495.8	695.2	-759.0	1,029.3	1.07	-0.31	5.63
5,639.0	10.30	317.60	5,527.3	699.4	-762.9	1,035.0	0.74	-0.31	3.75
5,670.0	10.20	316.30	5,557.8	703.5	-766.7	1,040.5	0.81	-0.32	-4.19
5,702.0	9.80	312.80	5,589.3	707.4	-770.7	1,046.1	2.27	-1.25	-10.94
5,734.0	10.00	312.40	5,620.8	711.1	-774.7	1,051.6	0.66	0.63	-1.25
5,766.0	10.90	312.00	5,652.3	715.0	-779.0	1,057.4	2.82	2.81	-1.25
5,797.0	11.60	312.70	5,682.7	719.1	-783.5	1,063.4	2.30	2.26	2.26
5,829.0	12.20	316.40	5,714.0	723.7	-788.2	1,070.0	3.03	1.88	11.56
5,861.0	12.60	316.60	5,745.2	728.7	-792.9	1,076.9	1.26	1.25	0.63
5,891.0	12.50	313.30	5,774.5	733.3	-797.5	1,083.4	2.41	-0.33	-11.00
5,923.0	11.60	309.80	5,805.8	737.7	-802.5	1,090.1	3.62	-2.81	-10.94
5,955.0	11.10	307.70	5,837.2	741.7	-807.4	1,096.3	2.03	-1.56	-6.56
5,987.0	11.30	308.60	5,868.6	745.5	-812.3	1,102.5	0.83	0.63	2.81
6,018.0	12.00	310.10	5,898.9	749.5	-817.1	1,108.8	2.46	2.26	4.84
6,050.0	12.40	310.10	5,930.2	753.8	-822.3	1,115.5	1.25	1.25	0.00
6,082.0	12.00	310.30	5,961.5	758.2	-827.5	1,122.3	1.26	-1.25	0.63
6,114.0	11.60	310.30	5,992.8	762.4	-832.5	1,128.8	1.25	-1.25	0.00
6,145.0	11.50	311.10	6,023.2	766.5	-837.2	1,135.0	0.61	-0.32	2.58
6,177.0	11.60	311.50	6,054.5	770.7	-842.0	1,141.4	0.40	0.31	1.25
6,208.0	11.50	312.80	6,084.9	774.9	-846.6	1,147.7	0.90	-0.32	4.19
6,240.0	11.30	313.00	6,116.3	779.2	-851.2	1,154.0	0.64	-0.63	0.63
6,272.0	11.20	313.80	6,147.7	783.5	-855.8	1,160.2	0.58	-0.31	2.50
6,303.0	11.20	313.60	6,178.1	787.6	-860.1	1,166.2	0.13	0.00	-0.65
6,335.0	10.90	313.00	6,209.5	791.8	-864.6	1,172.4	1.00	-0.94	-1.88
6,367.0	10.80	313.50	6,240.9	796.0	-869.0	1,178.4	0.43	-0.31	1.56
6,398.0	10.50	312.10	6,271.4	799.8	-873.2	1,184.1	1.28	-0.97	-4.52
6,430.0	10.20	311.90	6,302.9	803.7	-877.4	1,189.9	0.94	-0.94	-0.63
6,462.0	9.90	311.80	6,334.4	807.4	-881.6	1,195.5	0.94	-0.94	-0.31
6,494.0	9.90	312.40	6,365.9	811.1	-885.7	1,201.0	0.32	0.00	1.88
6,529.0	9.20	312.10	6,400.4	815.0	-890.0	1,206.8	2.01	-2.00	-0.86
6,590.0	9.20	312.10	6,460.6	821.5	-897.2	1,216.5	0.00	0.00	0.00

### Wellbore Targets

#### Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
R-34-8-16 TGT	0.00	0.00	5,300.0	663.7	-722.7	7,197,544.37	2,030,564.59	40° 4' 14.789 N	110° 6' 20.877 W
- actual wellpath misses by 12.4ft at 5405.8ft MD (5297.8 TVD, 670.4 N, -732.9 E)									
- Circle (radius 75.0)									

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



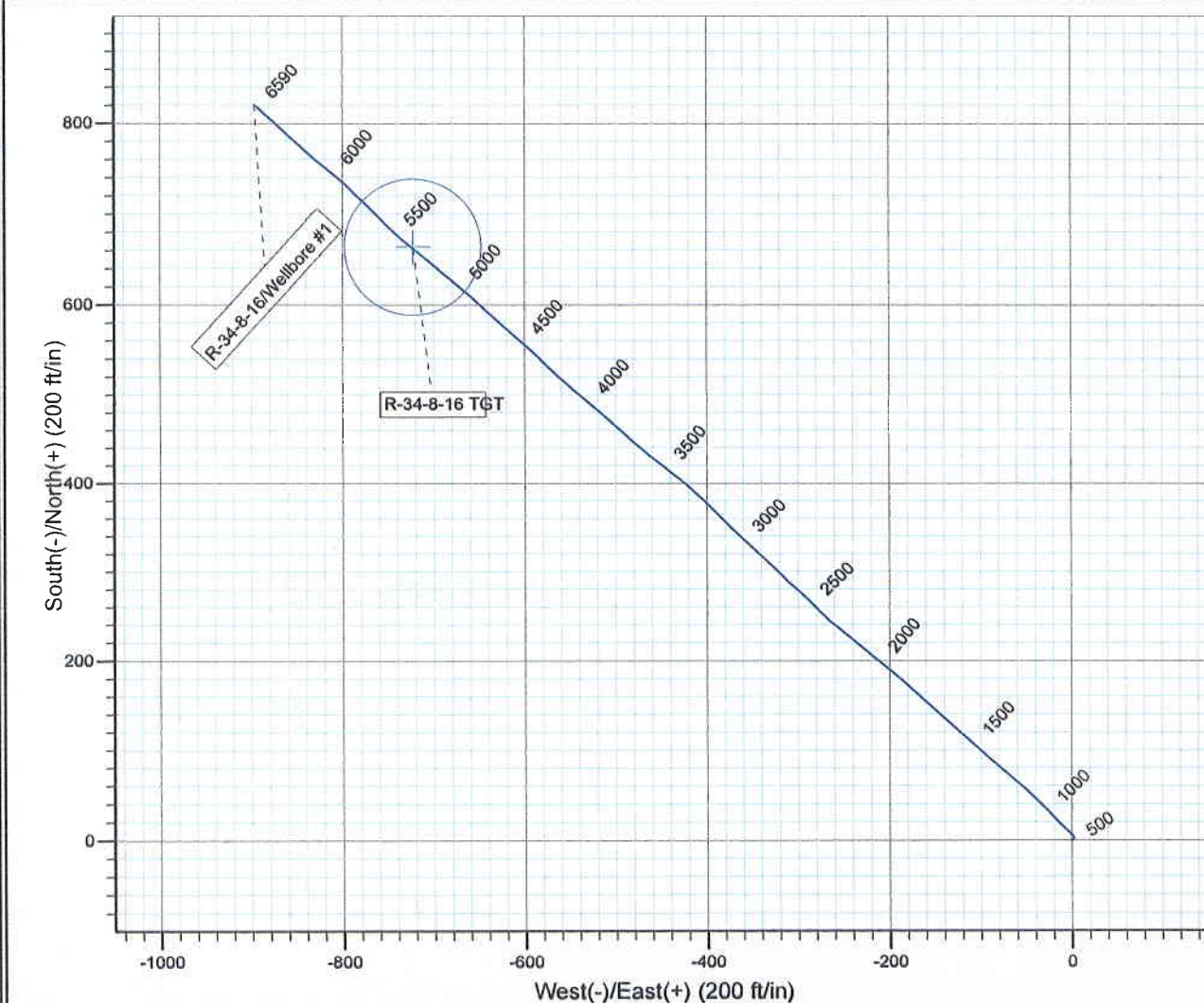
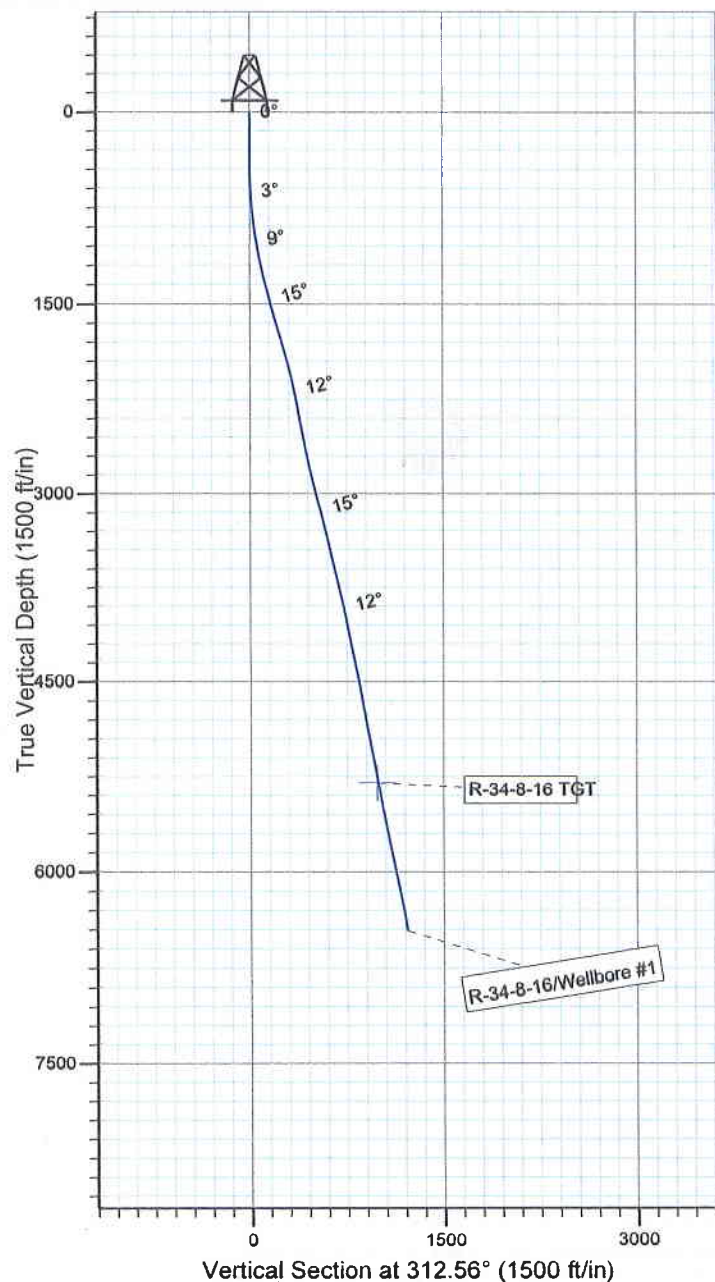
Project: USGS Myton SW (UT)  
Site: SECTION 34 T8S, R16E  
Well: R-34-8-16  
Wellbore: Wellbore #1  
SURVEY: Wellbore #1

FINAL SURVEY REPORT



Azimuths to True North  
Magnetic North: 11.53°

Magnetic Field  
Strength: 52472.2snT  
Dip Angle: 65.86°  
Date: 2009/10/14  
Model: IGRF200510



Design: Wellbore #1 (R-34-8-16/Wellbore #1)

Created By: *Jim Hudson* Date: 9:55, December 23 2010  
THIS SURVEY IS CORRECT TO THE BEST OF MY  
KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA.

**Daily Activity Report****Format For Sundry****GRTR MB R-34-8-16****10/1/2010 To 2/28/2011****GRTR MB R-34-8-16****Waiting on Cement****Date:** 12/1/2010

Ross #29 at 313. Days Since Spud - On 11-29-10 Ross # 21 spud and drilled 310' of 12 1/4" hole, P/U and run 7 jts of 8 5/8", 24# casing - set @ 312.73', on 12-1-10 Cement w/ BJ w/ 160 sks of class G+2%kcl+.25#CF mixed @15.8 ppg and 1.17 - yield, returned 4 bbls to pit, bump plug to 313 psi, BLM and State were notified via email.

**Daily Cost:** \$0**Cumulative Cost:** \$39,619

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**GRTR MB R-34-8-16****Waiting on Cement****Date:** 12/12/2010

NDSI #2 at 313. 0 Days Since Spud - Rig Down Prepair For Move

**Daily Cost:** \$0**Cumulative Cost:** \$48,744

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**GRTR MB R-34-8-16****Drill 7 7/8" hole with fresh water****Date:** 12/14/2010

NDSI #2 at 1641. 1 Days Since Spud - to 2,000PSI F/ 10min. Tested 8 5/8" Surface Casing to 1,500PSI F/ 30min all tested good - Rig up B&C Quick Test and Pressure Test Pipe and Blind Rams, Choke, Kelly and Safety Valve - Drill 7 7/8" hole F/ 268' to 1641' W/ 18,000WOB, 151RPM, 109fph ROP - MIRU on the Greater Monument Butte R-34-8-16 Set all Surface Equipment - Gap Sub, Index Sub, Pony, 26 HWDP - P/U BHA as follows Smith MI616 7 7/8" PDC Bit, Hunting ADJ.33Rev. 1.5° Mud Motor, Monel

**Daily Cost:** \$0**Cumulative Cost:** \$79,943

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**GRTR MB R-34-8-16****Drill 7 7/8" hole with fresh water****Date:** 12/15/2010

NDSI #2 at 4209. 2 Days Since Spud - Rig Service, Function test BOP, and Crown-O-Matic. Grease Crown, Blocks, Swivel, and Spinners - Drill 7 7/8" hole F/ 2592' to 4209' W/ 18,000WOB, 151RPM, 109fph ROP - Drill 7 7/8" hole F/ 1641' to 2592' W/ 18,000WOB, 151RPM, 109fph ROP

**Daily Cost:** \$0**Cumulative Cost:** \$133,204

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**GRTR MB R-34-8-16****Drill 7 7/8" hole with fresh water****Date:** 12/16/2010

NDSI #2 at 5889. 3 Days Since Spud - Drill 7 7/8" hole F/ 4906' to 5889' W/ 18,000WOB, 151RPM, 93fph ROP - Rig Service, Function test BOP, and Crown-O-Matic. Grease Crown, Blocks, Swivel, and Spinners - Drill 7 7/8" hole F/ 4209' to 4906' W/ 18,000WOB, 151RPM, 93fph ROP

**Daily Cost:** \$0**Cumulative Cost:** \$153,013

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**GRTR MB R-34-8-16****Running casing**

**Date:** 12/17/2010

NDSI #2 at 6590. 4 Days Since Spud - R/U B&C Quick Test, Test 5 1/2" Pipe Rams To 2000# psi For 10 Mins, Tested OK - R/U Phoenix Surveys Run Triple Combo Logs. Loggers TD 6590' ( Having Problems With Computer In Log- - LDDP & BHA - Kelly Up Pump 10# Brine ( Check For Flow None ) - LDDP To 4000' - Circ Hole For Laydown & Logs - Drill 7 7/8" Hole From 5889' To 6590' TD. WOB 20,000 lbs, TRPM 168, GPM 344, AVG ROP 70 fph - ging Truck )

**Daily Cost:** \$0**Cumulative Cost:** \$182,254

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**GRTR MB R-34-8-16****Running casing****Date:** 12/18/2010

NDSI #2 at 6590. 5 Days Since Spud - Rig Down - Clean Mud Tanks. - Nipple Down Bop's, Set Slips W/90,000# Tension. - water. Returned 55 bbls To pit. Bumped Plug To 2234 psi. - 1.24 yield. ( 50:50:2 +3% KCL +0.5% EC-1 +.25#CF +.05#SF +.3SMS +FP-6L ) Displaced With 155.5 bbls - Released Rig @ 5:30 PM 12/17/10. - R/U BJ Hardline Test To 4000 psi. Pump 300 sks of lead cement @ 11.0 ppg with 3.53 yield - Circ Casing - transferred to next location ( GMB C-3-9-16) - R/U Run 156 jts 5.5" J-55, 15.5# LT&C Casing. Shoe Set @ 6578.87', Float Collar @ 6533.76', 5 jts will be - ( PL II +3%KCL +5#CSE =0.5#CF +5#KOL +.5SMS +FP+SF) Then Pumped 400 sks Tail cement @ 14.4 ppg w/ **Finalized**

**Daily Cost:** \$0**Cumulative Cost:** \$330,571

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**Pertinent Files: Go to File List**